



800 Boylston Street, SUM SW380, Boston, MA 02199

Via Hand Delivery

March 1, 2004

Mary L. Cottrell, Secretary
Department of Telecommunications and Energy
One South Station
Boston, MA 02110

RE: Boston Edison Company d/b/a/ NSTAR Electric, D.T.E. 04-15

Dear Ms. Cottrell:

Enclosed please find the Annual Service Quality Report (the "SQ Report") for Boston Edison Company d/b/a/ NSTAR Electric Company ("Boston Edison" or the "Company"). The SQ Report sets forth the Company's performance results for the year ending December 31, 2003, under the service quality plan (the "SQ Plan") that was approved for the Company by the Department of Telecommunications and Energy (the "Department") on December 5, 2001.

In 2003, the Company met or exceeded all of the established performance benchmarks, and therefore, ended the year in a net offset position. NSTAR Electric looks forward to continued success in 2004.

Should you have any questions or need additional information, please do not hesitate to contact me. Any communications should also be directed to:

Cheryl M. Kimball
John K. Habib
Keegan, Werlin & Pabian, LLP
265 Franklin Street
Boston, MA 02110
TEL: (617) 951-1400

Letter to Mary Cottrell
D.T.E. 04-15
Boston Edison Company
March 1, 2004
Page 2 of 2

Thank you for your time and attention to this matter.

Sincerely,

A handwritten signature in black ink that reads "Mark L Reed". The signature is written in a cursive style with a large, stylized "M" and "R".

Mark Reed, Esq.
Director of Government Affairs
(781) 441-3776

Enclosures

cc: Caroline Bulger, Esq.
Jody Stiefel, Esq.
Joseph Rogers, Assistant Attorney General

Boston Edison Company

Annual Service Quality Report

SECTION ONE

Year Ending December 31, 2003

DTE FORM - B



FORM B (Electric Companies)

Boston Edison Company

PENALTY PROVISIONS	Years in Database	Mean and Benchmark	Performance in 2003	Comments
Telephone Answering Factor (%)	8	64.71% (+/- 11.57%)	76.72%	Telephone statistic based on Calls Handled within 20 Seconds.
Emergency Answering (%)	1	NA	76.73%	Tracking emergency calls started in 2002.
Non-Emergency Answering (%)	1	NA	76.72%	Tracking non-emergency calls started in 2002.
Service Appointments Kept (%)	1	NA	86.36%	Tracking service appointments started in 2002.
Meter Reads (%)	7	90.51% (+/- 4.59%)	94.08%	
Consumer Division Cases (Cases/1000 customers)	10	1.540 (+/- 0.400)	1.211	
Bill Adjustments (\$/1000 customers)	10	\$224.29 (+/- \$77.49)	\$125.80	
SAIFI	5	1.105 (+/- 0.160)	0.961	Exclusions based on events affecting 15% of service areas under historical methodology.
SAIDI	5	107.00 (+/- 23.08)	67.44	Exclusions based on events affecting 15% of service areas under historical methodology.
Lost Time Accident Rate (# of acc/200,000 employee hours worked)	10	0.92 (+/- 0.25)	1.02	

FORM B (Electric Companies)

Boston Edison Company

ADDITIONAL REPORTING	Years in Database	Mean and Benchmark	Performance in 2003	Comments
Staffing Levels		Union 1693 7 Management 681	Union 2232 Management 855	
Restricted Work Day Rate (# of acc/200,000 employee hours worked)	10	3.65	2.71	
Property Damage > \$50K (#)	2	NA	5	
Line Loss	10	6.3%	7.5%	Performance in 2003 is estimated pending filing of FERC FORM 1.
Capital Expenditures (# of projects and total \$)	10	\$125,283,203	317 \$201,015,160	
Spare Component & Inventory Policy	NA	NA	NA	
Customer Surveys (scale 1-7):				
Random (Overall Customer Satisfaction Survey)	2	NA	81.1%	
Callers (Post-Transaction Survey)	2	NA	83.5%	
Customer Service Guarantees (#; total \$)				
# of Payouts	2	NA	3	
\$ of Payouts	2	NA	\$75	

Boston Edison Company

Annual Service Quality Plan Performance Report

SECTION TWO

Year Ending December 31, 2003

Historical Performance Data



SECTION 2

Boston Edison Company Performance Review for Year Ending December 31, 2003

I. Introduction

On December 5, 2001, the Department of Telecommunications and Energy (the “Department”) approved a Service Quality Plan (the “SQ Plan”) for Boston Edison Company d/b/a/ NSTAR Electric (“Boston Edison,” or the “Company”). In accordance with the terms of the SQ Plan, Boston Edison filed its first annual service-quality report on March 1, 2002. That filing established the benchmarks (using data through 2001) against which performance in the 2002 calendar-year period would be measured. In this section (Section 2) of the filing, the Company reviews: (1) the historical data underlying those benchmarks; (2) the performance results for 2003; and (3) the comparison of 2003 performance results to the established benchmarks. Items (2) and (3) are provided in this section at Schedule 1, at page 1. Item (1) is provided in Schedule 1, at page 2.

In Section 3 of this filing, the Company has provided documentation for the reliability and safety requirements that are subject to the reporting requirements of the SQ Plan.

Also in Section 3, the Company has provided updated historical performance data through December 31, 2003. Based on this data, the Company has calculated the benchmarks that will be applied to evaluate 2004 performance data in next year’s filing. In that regard, the Company has recalculated benchmarks for three measures for which there was less than the requisite level of data as of December 31, 2001. For these three measures, the benchmarks applied next year are calculated using data through December 31, 2003. As provided by the SQ Plan, benchmarks that were calculated using the requisite level of data as of December 31, 2001, are fixed for the period of the SQ Plan. The fixed and updated benchmarks for 2004 are set forth in Appendix 12.

Specifically Section 3 contains the following:

- Appendix 1: Customer Surveys
- Appendix 2: Customer Average Interruption Duration Index
- Appendix 3: Restricted Work Day Data
- Appendix 4: Annual Line Loss Data
- Appendix 5: Damage to Company Property In Excess of \$50,000
- Appendix 6: Excludable Major Events
- Appendix 7: Tree Trimming Policy

- Appendix 8: Capital Expenditures
- Appendix 9: Spare Component and Acquisition Inventory Policy
- Appendix 10: Poor Performing Circuits
- Appendix 11: Staffing Levels
- Appendix 12: Updated Historical Data and Calculation of Benchmarks for 2004 Performance

II. Performance Review for Year Ending December 31, 2003

A. Customer Service and Billing Performance Measures

1. Telephone Service Factor

For the Telephone Service Factor, the Company is required to track and report data on the percentage of telephone calls from customers that are handled within a 20-second time interval, including both emergency and non-emergency calls. Boston Edison began collecting data based on the percentage of calls answered within 20 seconds in 1995. Based on available data through 2002, the Company's benchmark for this measure is 64.71 percent. In 2003, the Company handled 76.72 percent of calls within 20 seconds, which generated an offset for the Company.

Because the 2003 performance benchmark calculated for the Telephone Service Factor was based on less than 10 years of historical data, the Company has updated this benchmark to include 2003 performance. As shown in Appendix 12, the benchmark against which 2004 performance will be measured has increased from 64.71 percent to 66.05 percent.

2. Service Appointments Met as Scheduled

As of January 1, 2002, the Company instituted a system to compile statistics on the percentage of service appointments met by Company personnel, excluding appointments missed by the customer. A "service appointment" is defined as a mutually agreed upon arrangement for service between the customer and the Company where the arrangement specifies the date for the Company's personnel to perform a service activity that requires the presence of the customer at the time of the service. The Company will continue to update the data annually in accordance with the Department's guidelines, and will establish the benchmark when three years of data become available. As detailed in Appendix 12, the Company met 86.36 percent of its service appointments as scheduled in 2003.

3. On-Cycle Meter Readings

Boston Edison is required to report on the percentage of meters that are actually read by the Company in accordance with the meter-reading cycle. Based on available data through 2002, the Company's benchmark for this measure is 90.51 percent. In 2003,

the Company achieved 94.08 percent of on-cycle meter reads, which is within one standard deviation of the benchmark.

Because the 2003 performance benchmark calculated for On-Cycle Meter Readings was based on less than 10 years of historical data, the Company has updated this benchmark to include 2003 performance. As shown in Appendix 12, the benchmark against which 2004 performance will be measured has increased from 90.51 percent to 90.96 percent.

B. Customer Satisfaction Performance Measures

1. Consumer Division Cases

The Company is required to measure its performance in relation to the number of customer-complaint cases filed with the Department's Consumer Division. Based on the 10 years of data provided to the Company, the performance benchmark shown on Schedule 1 is 1.540, which will remain fixed for the duration of the service-quality plan. In 2003, the number of Consumer Division cases was 1.211, which is within one standard deviation of the benchmark.

2. Billing Adjustments

The Company is required to measure its performance in relation to the amount of revenue adjustments that result from the Department's intervention in a billing dispute with a residential customer. This is based on data that is compiled and reported by the Department and then provided to the Company. Based on the 10 years of data provided to the Company, the performance benchmark shown on Schedule 1 is 224.29, which will remain fixed for the duration of the SQ Plan. In 2003, the number of Billing Adjustments was 125.80, which generated an offset for the Company.

C. Safety and Reliability Performance Measures

1. System Average Interruption Duration Index ("SAIDI") and System Average Interruption Frequency ("SAIFI")

The SQ Plan requires the Company to track and report SAIDI/SAIFI statistics and to base the benchmark for this measure on the most recent five years of data. Under the SQ Plan, SAIDI and SAIFI are calculated with the exclusion of "Excludable Major Events." One criterion for an Excludable Major Event is that it be an unplanned interruption of service to 15 percent or more of the Company's customers in an "operating area." The Department has defined "operating area" to mean the Company's entire service territory. The Company's historical SAIDI/SAIFI statistics are based on the exclusion of major events defined as events that affected a significant number of customers on a service-area basis (rather than a company-wide basis). As stated to the Department in relation to last year's filing, Boston Edison does not have data available on the events that were excluded prior to 2000 under the old definition. Therefore, the Company's historical data cannot be recalculated consistent with the Department's new

terminology for the purpose of establishing a performance benchmark at this point in time.

Schedule 1 shows the SAIDI/SAIFI performance benchmarks that were fixed for the duration of the SQ Plan based on the most recent five-years of historical data (1997-2001), excluding major events as defined on the historical “service-area” basis. The Company is also tracking SAIDI/SAIFI performance to be consistent with the Department’s new definition until the commencement of a new SQ Plan.¹

As shown in Schedule 1, the SAIDI benchmark is 107.00 and the SAIFI benchmark is 1.105. In 2003, the Company performance statistics were 67.44 for SAIDI and 0.961 for SAIFI, generating an offset for SAIDI and performance within one standard deviation of the benchmark for SAIFI.

2. Lost-Work Time Accident Rate

The SQ Plan requires the Company to report on the Incidence Rate of Lost Work Time Injuries and Illness per 200,000 Employee Hours, as defined by the U.S. Department of Labor Bureau of Labor Statistics. This data is compiled and reported annually to the U.S. Department of Labor Bureau of Labor Statistics and the Company has 10 years of available data for this measure. Based on that data, the performance benchmark for this measure is 0.92. In 2003, the number of Lost Work Time Accidents was 1.02, which is within one standard deviation of the benchmark.²

¹ For informational purposes, the Company has calculated the SAIDI/SAIFI performance statistics for 2000 through 2003 using the definition of “operating area,” which includes the major events that are excluded from the SAIDI/SAIFI historical statistics set forth in Schedule 1. This recalculation is as follows:

Performance Measure	2000	2001	2002	2003
SAIDI	106.97	163.89	86.87	67.44
SAIFI	1.221	1.560	1.157	.961

² On January 1, 2002, the U.S. Department of Labor, Occupational Safety and Health Administration (“OSHA”), revised the regulations concerning the recording and reporting requirements for occupational injuries and illnesses. See 29 CFR § 1904.7. Specifically, the revised regulations require the Company to include the number of calendar days that an employee was unable to work as a result of injury, regardless of whether or not the employee was scheduled to work on those days (29 CFR § 1904.7(iv)). The Company’s performance benchmark for Lost-Work Time Accident Rate, which is based on ten years of historical information, excludes weekends, holidays or other days that an employee would not normally have reported to work. Since the effective date of OSHA’s revised regulations, the Company has maintained a log of occupational injuries or illnesses consistent with the new regulations. However, for purposes of the annual service-quality report (the “SQ Report”), the Company has tracked and reported its performance consistent with the prior version of the regulation so that the performance data will match the historical data composing the performance benchmark. The Department approved the Company’s 2002 SQ Report using this methodology. See 2002 Service Quality Reports for Electric Distribution and Local Gas Distribution Companies, D.T.E. 03-10 through D.T.E. 03-23 (2003).

**BOSTON EDISON COMPANY
SERVICE QUALITY STANDARDS**

Measures	Required Years History	No. of Years Used	Historical Average(1)	Std Dev	Penalty / Offset Weight	Max (3) Amount	Results - 2003			
							Observ.	Variance	No. of Std Devs	Penalty / (Offset)
Customer Service and Billing										
% Calls Answered (2)	10	8	64.71%	11.57%	12.5%	\$ 1,565,643	76.72%	12.01%	1.0380	\$ (421,723)
% Services Appointments Met	10	1	NA	NA	12.5%	1,565,643	86.36%	NA	NA	NA
% On-Cycle Meter Reads	10	7	90.51%	4.59%	10.0%	1,252,515	94.08%	3.57%	0.7778	0
Safety and Reliability										
Lost Work Day Accidents	10	10	0.92	0.25	10.0%	1,252,515	1.02	0.10	0.4000	0
SAIDI - 5 yrs (4)	5	5	107.00	23.08	22.5%	2,818,158	67.44	-39.56	-1.7140	(2,069,793)
SAIFI - 5 yrs (4)	5	5	1.105	0.160	22.5%	2,818,158	0.961	-0.144	-0.9000	0
Consumer Division Statistics										
Consumer Division Cases	10	10	1.540	0.400	5.0%	626,257	1.211	-0.329	-0.8225	0
Billing Adjustments	10	10	224.29	77.49	5.0%	626,257	125.80	-98.49	-1.2710	(252,920)
Total					100.0%	\$ 12,525,145				\$ (2,744,437)

Notes

- (1) Telephone statistic based on Calls Handled within 20 Seconds; includes abandoned calls.
(2) Max penalty is incurred at 2 sd from average
(3) Exclusions based on events affecting 15% of service areas under historical methodology.
(4) Two percent of total T&D revenue in 2003.
Less: Service Guarantee Payout
Maximum Penalty / (Offset)

\$12,525,220
75
\$12,525,145

BOSTON EDISON COMPANY

Measures	History (1)															
	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1988	Sample	Average	Std Dev
<u>Customer Service and Billing</u>																
% Calls Answered (1)	76.04%	57.11%	56.68%	69.20%	72.74%	79.98%	46.16%	59.78%						8	64.71%	11.57%
% Services Appointments Met	88.30%													1	NA	NA
% On-Cycle Meter Reads	92.92%	83.49%	94.81%	94.73%	92.46%	90.23%	84.92%							7	90.51%	4.59%
<u>Safety and Reliability</u>																
Lost Work Day Accidents		0.76	0.96	0.73	0.50	0.77	0.98	1.37	1.10	0.87	1.16			10	0.92	0.25
SAIDI - 5 yrs		146.77	100.33	101.21	86.31	100.4								5	107.00	23.08
SAIFI - 5 yrs		1.330	1.171	1.060	0.896	1.070								5	1.105	0.160
<u>Consumer Division Statistics</u>																
Consumer Division Cases		2.292	0.996	1.087	1.097	1.776	1.523	1.478	1.608	1.742	1.803			10	1.540	0.400
Billing Adjustments		114.75	123.80	206.88	266.33	255.71	169.44	342.21	304.48	282.04	177.26			10	224.29	77.49

Notes

(1) 12 Month period January to December.

Boston Edison Company

Annual Service Quality Report

SECTION THREE

Year Ending December 31, 2003

Back-up Data and Supporting Schedules



SECTION 3

I. Non-Penalty Related Service Quality Information

Section VIII of the SQ Plan sets forth a number of non-penalty related reporting requirements for the Company's annual service-quality filings. These reports are as follows:

Appendix 1: Customer Surveys

Pursuant to section III.C of the SQ Plan, Boston Edison conducted an annual survey of (1) overall customer satisfaction as indicated by a statistically representative sample of residential customers, and (2) post-transaction customer satisfaction as indicated by a sample of randomly selected customers who have contacted the Company's customer-service department during the year. The surveys were conducted by Research International, which is an independent research firm with significant experience in conducting customer satisfaction surveys. The results of these surveys are presented in Appendix 1.

Appendix 2: Customer Average Interruption Duration Index ("CAIDI")

The CAIDI performance statistics for the ten most recent years ending December 31, 2003 are provided in Appendix 2. Historically, the Company's CAIDI performance statistics have been calculated on the same basis as SAIDI and SAIFI. As a result, the CAIDI performance statistics for Boston Edison are based on a calculation that excludes major events that occur on a service-area basis (rather than a company-wide basis), as discussed above in relation to the SAIDI/SAIFI benchmarks.¹

In addition, it should be noted that, under the provisions of the SQ Plan, when customers lose power as a result of the process of restoring, the duration of these additional outages is included in SAIDI, but the additional number of interruptions is excluded from the calculation of SAIFI. See, Section V(I). Further, under Section I(B), CAIDI is calculated as SAIDI divided by SAIFI. A consequence of this construction is that, in calculating CAIDI, the numerator and the denominator are not representing the same outages, i.e., there are outages that are included in the numerator, but not in the denominator. To be consistent with industry practice, the numerator and the denominator of the CAIDI calculation should represent the same outages.²

Appendix 3: Restricted Work Day Rate

¹ For informational purposes, the Company has recalculated the CAIDI performance statistics since 2000 using the new definition of "operating area," which includes the major events that are excluded from the SAIDI/SAIFI historical statistics set forth in Schedule 1. This calculation is as follows:

Performance Measure	2000	2001	2002	2003
CAIDI	87.60	105.10	75.10	70.17

² The Company's CAIDI statistic for 2003 would be 54.98 with the outages associated with power restoration excluded from SAIDI.

The Restricted Work Day Rate is the Incidence Rate of Restricted Work Cases Per 200,000 Employee Hours, as defined by the U.S. Department of Labor, Bureau of Labor Statistics. This information is provided for the most recent ten years in Appendix 3.

Appendix 4: Electric Distribution Line Loss

Pursuant to section VIII.A of the SQ Plan, the Company is required to report electric distribution line loss on an annual basis. For 2003, this information is provided in Appendix 4. The annual line loss value for electric companies is the net result of reconciling the total sources of power to the amount of electricity supplied to customers, plus company use. The derivation of the calculation is set forth on page 401a of the Company's annual FERC Form 1.

Appendix 5: Damage to Company Property In Excess of \$50,000

Pursuant to section VIII.A of the SQ Plan, the Company is required to provide an annual report of property-damage incidents involving property damage to Company-owned facilities exceeding \$50,000 per incident. For 2003, this information is provided in Appendix 5..

Appendix 6: Excludable Major Events

Pursuant to section VIII.D of the SQ Plan, Boston Edison is required to identify and report on an annual basis the outages that are considered Excludable Major Events in the calculation of SAIDI/SAIFI statistics. For 2003, this information is provided for Boston Edison in Appendix 6.

Appendix 7: Tree Trimming Policy

The Company's Tree-Trimming Policy is provided as Appendix 7.

Appendix 8: Capital Expenditures

The Company's data on capital expenditures for the ten most recent years (1994 through 2003) is provided in Appendix 8.

Appendix 9: Spare Component and Acquisition Inventory Policy

Pursuant to section VIII.F of the SQ Plan, Boston Edison is required to report on an annual basis its policy for identifying, acquiring, and stocking critical spare components for its distribution and transmission system. The Spare Component and Acquisition Inventory Policy is provided as Appendix 9.

Appendix 10: Poor Performing Circuits

Pursuant to section VIII.G of the SQ Plan, Boston Edison is required to identify and report on an annual basis its poor performing circuits. For 2003, the Company's information is provided as Appendix 10. Poor performing circuits are any distribution feeder that:

- (a) has sustained a circuit SAIDI or SAIFI value for a reporting year that is among the highest (worst) ten percent of that utility's feeders for any two consecutive reporting years; or
- (b) has sustained a circuit SAIDI or SAIFI value for a reporting year that is more than 300 percent greater than the system average of all feeders in any two consecutive reporting years.

Appendix 11: Staffing Levels

Staffing level information for the Company is provided in Appendix 11.

Appendix 12: Performance Benchmarks for 2004

In Appendix 12, the Company has updated historical data to include 2003 performance data in the calculation of benchmarks for the 2004 reporting period, where the benchmarks were not fixed for the duration of the SQ Plan.

II. Customer Service Guarantees

Pursuant to section XI of the SQ Plan, Boston Edison is required to provide information as to the customer payments credited as a result of the customer-service guarantee program during the service-measurement period. As indicated in the SQ Plan, Boston Edison credits the customer's account by \$25.00 if a meter reading is inaccurate, if the Company knowingly fails to inform a customer that it will be more than 30 minutes late for a service appointment, if there is an error in the direct payment or pay-by-phone billing systems, if the Company fails to inform a customer of a scheduled service interruption, or if the Company does not respond to a billing question by the next business day. In addition, if a new residential service line is not connected by the agreed date (after all permits are received), the first month's bill is free (minimum \$25, maximum \$100). In 2003, Boston Edison remitted to customers a total of \$75.00 under its Customer-Service Guarantee program.

III. Conclusion

As set forth above, this filing establishes the performance benchmarks for service-quality measures subject to the penalty mechanism based on historical data available through December 31, 2003. On March 1, 2005, Boston Edison will make its annual filing, which will compare the Company's performance in 2004 to the benchmarks established in this filing. The Company's March 2005 filing will also include documentation to satisfy all other reporting requirements set forth in the approved SQ Plan.

Boston Edison Company

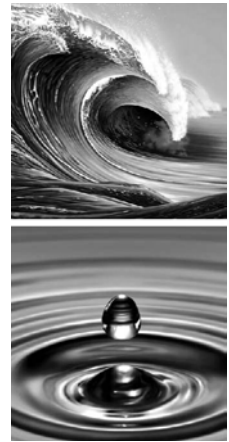
Customer Surveys

Year Ending December 31, 2003



Appendix 1

RESEARCH INTERNATIONAL



MEMO

TO NSTAR
FROM Research International
DATE February 10, 2004

RE: Residential customer satisfaction metrics (former BECO service area)

The following results are from a representative sample of 700 NSTAR residential customers. Of the 700 surveys, 550 were with NSTAR Electric residential customers (300 in the former Boston Edison service area, and 250 in the former COM/Electric service area) and 150 with NSTAR Gas residential customers.

Respondents were asked to evaluate their *satisfaction with the service they are receiving from NSTAR Electric* using a 7-point scale, where a rating of "7" means "very satisfied." The data from NSTAR Electric customers are weighted to reflect the true proportion of former Boston Edison customers to former COM/Electric customers. *"Don't know" responses are excluded from the analysis.*

- Eight in ten (81.1%), or 240 of 296 NSTAR Electric customers living in the former Boston Edison service area rate positively their overall satisfaction with NSTAR (5 or higher on 7-point scale).

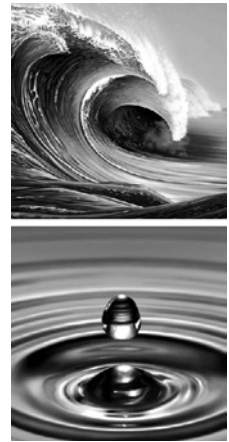
The raw numbers in terms of actual customer responses to the 7-point scale in 2003 are as follows:

Response codes	"1"	"2"	"3"	"4"	"5"	"6"	"7"	"DK"
Responses	13	2	13	28	58	60	122	4

The associated margin of error for the sample of 300 surveys is +/-5.7 percentage points at the midpoint of the 95% confidence level.

Jeff Banks
Senior Vice President
Research International/Cambridge
617.661.0110
955 Massachusetts Avenue
Cambridge, MA 02139

RESEARCH INTERNATIONAL



MEMO

TO NSTAR
FROM Research International
DATE February 10, 2004

RE: Post-transaction residential customer satisfaction metrics (former BECO service area)

The following results are from a representative sample of 900 NSTAR residential customers who recently contacted NSTAR for service. Of the 900 surveys, 699 were with NSTAR Electric residential customers (443 in the former Boston Edison service area, and 256 in the former COM/Electric service area) and 201 with NSTAR Gas residential customers.

Respondents were asked to think about the most recent time they called NSTAR and to evaluate their *overall satisfaction with the service they received from the customer service department of NSTAR* using a 7-point scale, where a rating of "7" means "very satisfied." *"Don't know" responses are excluded from the analysis.*

- Eight in ten (83.5%), or 360 of 431 NSTAR Electric customers living in the former Boston Edison service area rate positively their overall satisfaction with NSTAR's customer service (5 or higher on 7-point scale).

The raw numbers in terms of actual customer responses to the 7-point scale in 2003 are as follows:

Response codes	"1"	"2"	"3"	"4"	"5"	"6"	"7"	"DK"
Responses	30	10	9	22	52	80	228	12

The associated margin of error for the overall sample of 443 surveys is +/-4.7 percentage points at the midpoint of the 95% confidence level.

Jeff Banks
Senior Vice President
Research International/Cambridge
617.661.0110
955 Massachusetts Avenue
Cambridge, MA 02139

Boston Edison Company

Customer Average Interruption Duration Index

CAIDI

Year Ending December 31, 2003



Appendix 2

Boston Edison Company
SQ Plan
Historical Data

<u>Year</u>	<u>SAIFI</u>	<u>CAIDI</u>	<u>SAIDI</u>
1994	1.250	113.21	141.50
1995	1.090	107.90	117.60
1996	1.070	111.58	119.40
1997	1.070	93.80	100.40
1998	0.896	96.38	86.31
1999	1.060	95.50	101.21
2000	1.171	85.66	100.33
2001	1.330	110.39	146.77
2002	1.117	74.66	83.38
2003	0.961	70.17	67.44

Excludes outages affecting greater than 15% of service area.

Boston Edison Company

Restricted Work Day Data

Year Ending December 31, 2003



Appendix 3

Injury Statistics

Restricted Duty Cases

Boston Edison Company

	<u>Hrs. Wkd.</u>	<u># of Cases</u>	<u>Rate</u>
1994	6,698,998	147	4.39
1995	6,153,188	154	5.01
1996	5,490,958	131	4.77
1997	9,212,802	107	2.32
1998	4,825,143	85	3.52
1999	4,902,764	91	3.71
2000	3,947,311	65	3.29
2001	4,224,811	84	3.98
2002	4,849,182	69	2.83
2003	4,586,340	62	2.71
		Mean	3.65

Incident Rate = Number of Cases x 200,000/Hours Worked

Boston Edison Company

Annual Line Loss Data

Year Ending December 31, 2003



Appendix 4

Annual Line Loss Data Boston Edison Company	
1994	6.0%
1995	5.8%
1996	5.7%
1997	5.7%
1998	5.7%
1999	6.6%
2000	6.3%
2001	7.0%
2002	7.0%
2003 **	7.5%

** Subject to finalization of FERC FORM1 1 and DTE Annual Report for year-end 2003.

Boston Edison Company

Damage to Company Property

Year Ending December 31, 2003



Appendix 5

Boston Edison Company

Damage to Company Property in Excess of \$50,000

- 5 Incidents
 1. Damage due to dig up of underground electric lines: Mystic Street, Winchester.
 2. Damage due to dig up of underground electric lines: Beacon Street, Brighton.
 3. Damage due to dig up of underground electric lines: Blossom Street, Boston.
 4. Damage due to dig up of underground electric lines: Lexington Street, Waltham.
 5. Damage due to dig up of underground electric lines: Longwood Avenue, Roxbury.

Boston Edison Company

Excludable Major Events

Year Ending December 31, 2003



Appendix 6

2003 Major Outage Events

Boston Edison Company

Excludable Major Events considered in the calculation of SAIDI / SAIFI for 2003.

- None

Boston Edison Company

Tree Trimming Policy

Year Ending December 31, 2003



Appendix 7

NSTAR DISTRIBUTION TREE PRUNING POLICY

General

The Distribution Pruning Policy is intended to provide pruning contractors with guidelines for performing work acceptable to the NSTAR Company, including proper pruning techniques, work progress reporting and time reporting.

The Policy also documents general management procedures for dealing with the various aspects of Pruning Program Control.

The Policy pertains to both maintenance pruning, which is done on an ongoing cyclic basis of approximately three to six years and to “new work” pruning.

Note: Company representative or delegate as referred to in this policy shall be understood to mean those individuals normally assigned to monitor tree crew activities in a given district or area within a district.

Guidelines For Tree Pruning And Removal

- 1) Provisions of the latest revisions to ANSI A-300 American National Standard for Tree Care Operations – Tree Shrub and Other Woody Plant Maintenance – Standard Practices shall be followed.
- 2) The desired amount of clearance necessary for conductors and electrical equipment should be such that high winds, rain, heavy snow, ice or a combination of any of them will not cause limbs or trees to come in contact with wires or other equipment. Effort should be made to remove any dead trees or limbs that in the event of their falling could contact conductors.
 - a) Clearance Guidelines – Refer to Exhibit 1.
 - b) Road Screens – Where existing, shall be topped depending on the ground clearance of the conductors above, using the drop crotch or “Natural Pruning” technique as shown in Exhibit 1.
- 3) Generally Accepted Scientific Arboricultural Principles as Applied to line Clearance Work – For safe and healthy trees, the following recommendations are suggested:
 - a) Branches growing into a conductor should be removed by cutting back at a lateral or main side branch, rather than stub cutting. (“Natural Pruning”)
 - b) All cuts shall be properly made, using undercutting to avoid damage by loosening or stripping of bark; the so-called “Branch Bark Collar” shall be left intact but no stubs shall remain. Cuts shall be smooth to allow for callus tissue to form and to retard decay. Properly made saw cuts at the laterals, where the lateral is at least one third (1/3) the size of the branch or leader removed, reduce the number and vigor of re-growth sprouts through the trees natural growth mechanisms. (“Natural Pruning”).

- c) In general, tree paint is not required. In specific instances state or municipal authorities may require tree paint. In such instances growth retardant paint should be used. Asphalt based tree paints shall not be used as they promote growth of certain rot fungi.
- d) Remove raised sucker clusters at parent limb and remove undesirable limbs that have been stubbed off and have formed accumulated sucker clusters.
- e) Directional prune so that growth will be away from wires.
- f) Lighten overhanging (within 10' of trimmed zone) or adjacent leaders and branches and shorten evergreens overhanging conductors to prevent limbs touching or breaking off and falling on lines in severe storms.
- g) Remove leaders and limbs that are a hazard to lines due to death, decay, weak configuration and split or weak crotches.
- h) Only appropriate tree tools in good working condition shall be used.
- i) Climbing irons shall not be used in any tree unless the tree is to be removed.
- j) All severed limbs and branches (hangers) shall be removed from trees after pruning.
- k) Guidelines for tree removal.
 - i) Unless previous arrangement has been made with the Company Representative, trees that are a hazard to the lines shall be removed; i.e. any tree which by the nature of it's health, size or condition endangers the line.
 - ii) Defective or diseased trees shall be removed whenever possible.
 - iii) Fast growing and weed trees shall be removed as undesirable species, whenever possible.
 - iv) Trees shall be felled away from conductors.
 - v) In areas where damage might be caused to conductors or property, trees shall be stripped of all limbs with the trunk removed in sections, as necessary.
 - vi) All brush shall be removed daily from public thoroughfares and other improved places unless otherwise arranged with the Company Representative.
 - vii) All stumps shall be cut flush and parallel to the ground. Tree stumps shall not exceed a maximum height of three (3) inches. All brush shall be cut flush and parallel to the ground.
 - viii) Wood and brush (cribbing) shall be used as a cushion to protect from potential damage due to felling trees or heavy limb sections. The probability of a bouncing effect is normally increased when using cribbing and should be allowed for.
- 4) Prioritization of Pruning – Distribution pruning should be performed on a circuit basis whenever possible. Always start pruning from the substation out, as this area is of greatest importance due to the large number of customers affected by outages caused in this area.
- 5) Three-phase lines should have greater clearance and attention than single-phase spur lines. Pruning is performed to protect the largest number of customers from an interruption. Three-phase interruptions will affect more customers.

6) Safety – Good Relations – Clean-up

- a) The contractor will take all safety and protective precautions and with respect thereto will strictly enforce all applicable regulations of Municipal, State and Federal Laws, the various insurers and the Company. These shall include OSHA and ANSI Z133.1.
- b) A neat appearance, pleasant approach and a clear explanation as to what you mean or want when contacting people. In any instance where there is a misunderstanding or a possible cause for trouble with a customer or municipal official, notify the Company Representative, so that proper action can be taken. When a property owner or municipal official absolutely will not allow proper pruning refer the situation to the Company Representative in writing. If pruning in a given area is under dispute – move to another area.
 - i) Utility Company Relations – Tree crew to contact the Company every day and report work location; details of who to report to, when and where will be specified by the local Company Representative.
 - ii) Outage – Whenever there is a question of a possible accidental outage of power caused by a tree crew, the Company is to be notified immediately.
 - iii) Municipal Regulations – Notify the proper municipal official (Tree Warden, etc.) as required and let them know what location you are working in. Get permission to do tree work on municipal trees from the proper authority before doing the work.
 - iv) State Regulations – When doing tree work on a State Highway have a copy of the State Tree Pruning Permit with Permit Number. All tree work on State Highways must be approved and supervised by the proper State Official. State regulations on barricades and warning signs must be observed.

Dispose of all debris properly and leave the work area in a neat and clean condition. Unless otherwise specified, wood shall be left for property owner. All trucks will have leaf blowers to clear roadway areas.

Contractor Responsibility

“The relationship of the Company and the Contractor is acknowledged to be that of owner and independent contractor. The means and methods employed for performing the details of pruning shall be the responsibility of the Contractor, subject to the suggestions and approvals of the Company’s designated representative.”

- 1. Compliance with Laws and Regulations – The Contractor shall comply with all applicable laws and regulations and all work and materials are to comply in every respect with all applicable codes, laws and regulations. All necessary permits, licenses, etc., for the Work unless obtained by the Company are to be obtained and paid for by the Contractor, the Company to reimburse the Contractor for the cost thereof unless the Work is being done on a fixed fee basis.

2. Instructions to Contractor – Pruning work includes the furnishing of all supervision, labor, equipment, tools and services necessary to trim trees in designated areas and in a manner acceptable to local or state authorities and Company Representative, per the Pruning Contract/Purchase Order. The Contractor will report daily in writing to the Company Representative any damaged Company equipment (insulators, crossarms, etc.) encountered in the course of his work.
3. All crews are required to attend a yearly review of NSTAR Pruning Policy at the expense of the contractor

Other Related Items

1. Privately Owned Facilities – The Company in general will not authorize pruning of privately owned facilities.
2. Contractor List – Owners of private electrical facilities may occasionally ask for recommendations concerning private contractors for line maintenance or pruning work. The Company position is not to make recommendation of any specific contractor for reasons of liability.
3. Refusal to Allow Pruning – When the pruning contractor reports a refusal to allow pruning, the Company Representative shall contact the involved party in an effort to secure the proper pruning. If no agreement can be reached the refusing party shall be contacted via registered mail (Return Receipt Requested)

The letter will relate our reasons for pruning i.e. protection of our facilities, reliability of service, protection of the public (tree climbers) and serve as documentation of our attempt to secure adequate pruning. Hopefully this letter will prompt some to reconsider their refusal. If not, we will have documentation of our intent and attempt to secure adequate pruning.

4. Documentation of Tree Removal – When, due to diseased or dead state, ornamental or large shade trees are by necessity removed, documentation in the form of detailed notes and/or photographs should be kept. This documentation may be valuable in the event a customer later brings a claim against the Company for the value of a tree claiming “wrongful removal”.

Methods of Pruning

There are many methods of pruning trees for line clearance, but not all methods are attractive or advantageous to the tree, nor are all methods effective for long-term line clearance. The basic pruning methods are pollarding, sharing or rounding over and natural pruning (Fig. 3).

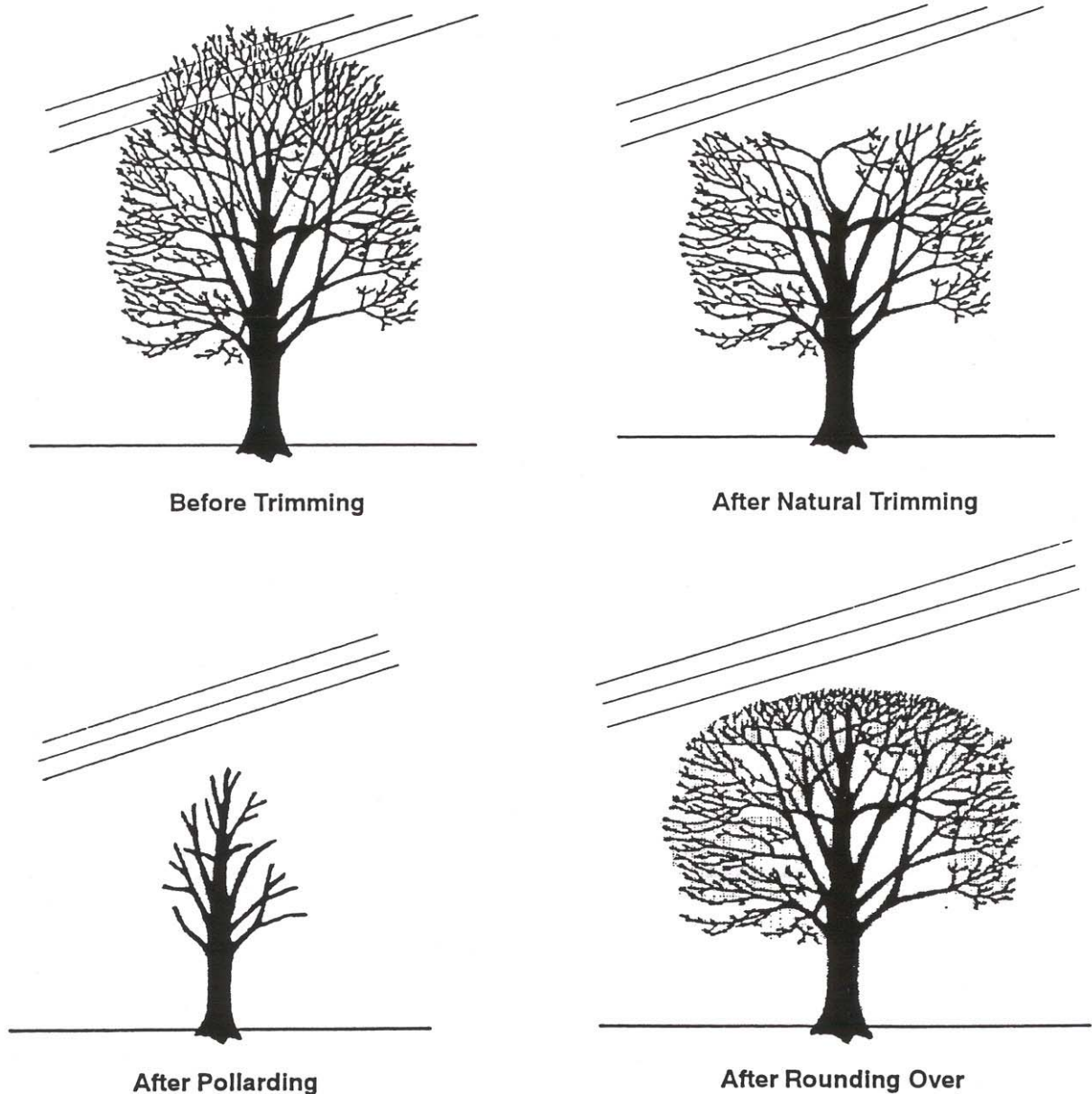


Figure 3. Basic Trimming Methods

Stubbing off major limbs by pollarding is not a desirable pruning practice.

The result is not only unsightly, but multitudes of fast-growing suckers sprout from the stubs and soon result in line clearance problems more serious than before. The stubs are also likely to fall victim to decay or disease. Finally, this method of pruning attracts unfavorable public attention.

Shearing or Rounding Over consists of making many small cuts so that the treetop is sheared in a uniform line. This results in rapid re-growth of many small sprouts, called suckers, directly toward the conductors. Because of this rapid re-growth of suckers, trees trimmed by the rounding over method need to be re-trimmed sooner than trees trimmed by the natural pruning period.

Natural Pruning is the method recommended by most professionals. Natural pruning is cutting branches flush at a suitable parent limb, back toward the center of the tree. This method of pruning is sometimes called “drop crutching” or “lateral pruning”. An attempt is made to remove large branches to laterals at least one-third the diameter of the branch being removed. All cuts should be flush to avoid leaving stubs. Natural pruning is especially adapted to the topping of large trees where a great deal of wood must be removed. In natural pruning, most cuts are made on larger limbs with a saw, and little pole prune work is required. The results are natural-looking trees, even if large amounts of wood have been removed. Natural pruning is also directional pruning, since it tends to guide the growth of the tree away from the wires (Figure 4). Stubbing, on the other hand, tends to promote rapid sucker growth right back into the conductors.

It should be emphasized that natural clearance is highly effective in reducing future costs, and that two or three natural pruning cycles will produce an ideal situation for both the utility and the tree owner. Most shade trees lend themselves easily to this type of pruning. Elm, Norway Maple, Red Oak, Red Maple, Sugar Maple, Silver Maple and European Linden, the most common street trees, react especially well to natural pruning methods.

Crown Reduction is cutting back portions of the upper crown of a tree. Reducing is indicated when a tree is located directly beneath a line. The main leader or leaders are cut back to a lateral, which should be at least one-third the diameter of the limb being removed. Most cuts should be made with a saw. A pole pruner is used only to cut lateral branches. To minimize re-growth, no more than one-fourth of the crown should be removed when topping (Figure 5).

Side Pruning is cutting back or removing side branches that threaten the conductors. Side pruning is required where trees are growing adjacent to utility lines. Limbs should be removed at a lateral branch. Notches in tree crowns should be avoided, if possible. Shortening branches above and below the indented area, or balancing the opposite side if the crown, will usually improve the appearance of the tree. When pruning, all dead branches over the wires must be removed, since this dead wood could easily break off and cause an interruption in service. (Figure 5)

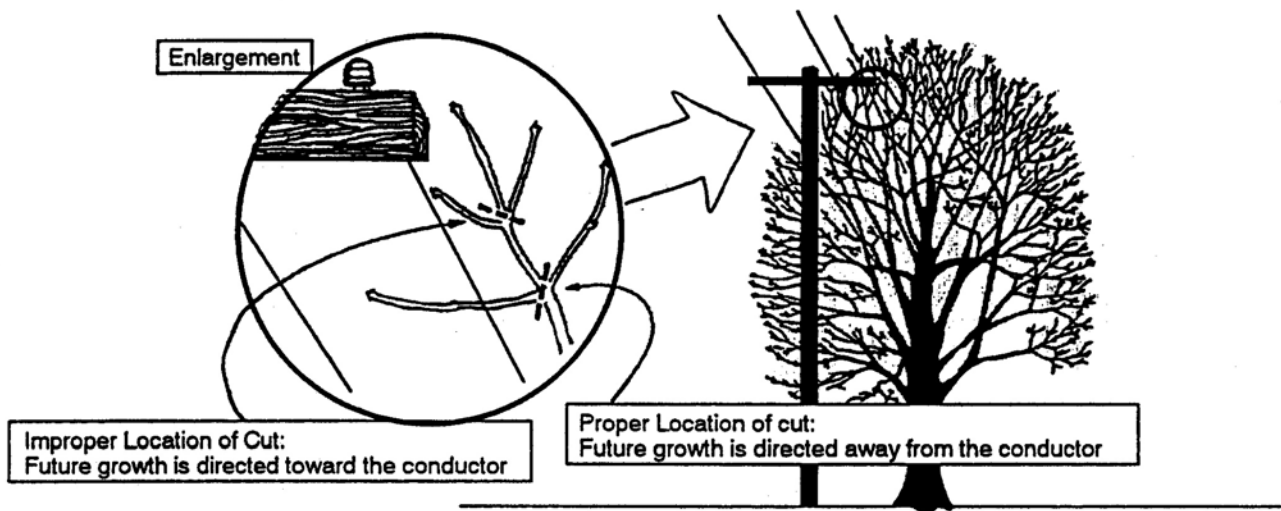


Figure 4. Natural Trimming (to direct growth away from wires)

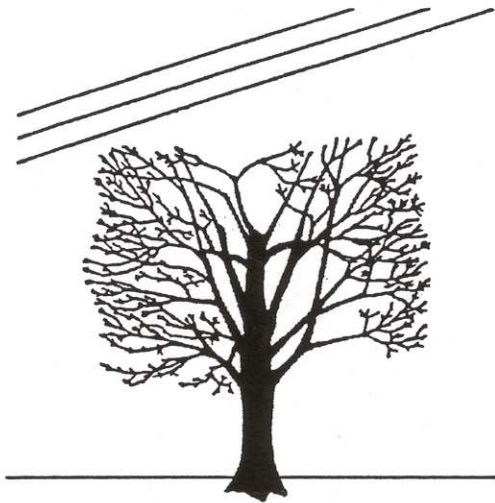
Side Trimming is cutting back or removing side branches that threaten the conductors. Side trimming is required where trees are growing adjacent to utility lines. Limbs should be removed at a lateral branch. Notches in tree crowns should be avoided, if possible. Shortening branches above and below the indented area, or balancing the opposite side of the crown, will usually improve the appearance of the tree. When trimming, all dead branches over the wires must be removed, since this dead wood could easily break off and cause an interruption in service (Figure 5).

Overhang Or Under Pruning consists of removing limbs beneath the tree crown to allow wires to pass below the tree crown. This type of pruning will allow the tree to retain its natural shape and continue its normal growth. Overhangs are hazards when lines pass beneath a tree and should be removed according to the species of the tree, location and the general policy of the utility. When pruning, all dead branches above the wires are removed, since this dead wood could easily break off and cause an interruption. Many utilities have a set removal program for trees that overhang important lines (Figure 5).

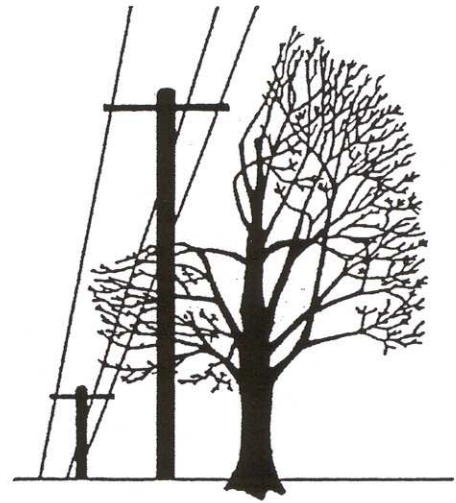
Through Pruning is the removal of branches within the crown to allow lines to pass through the tree. It is best suited for secondaries, streetlight circuits, and cables, although it is often used on primary circuits where there is no other way of pruning the tree. Cuts should be made at crotches to encourage growth away from the lines (Figure 5).

Combinations - It is often necessary to combine several types of pruning in order to maintain acceptable tree appearance and provide adequate clearances.

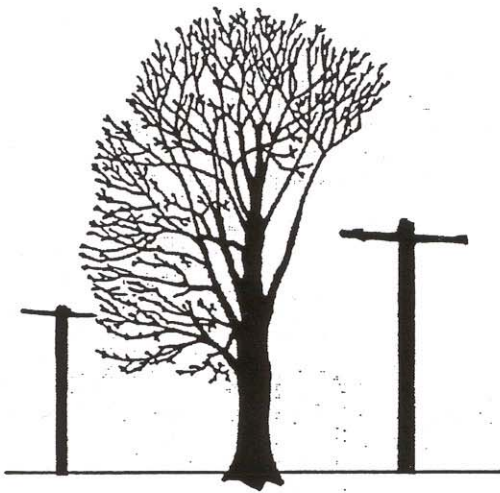
METHODS OF TRIMMING (con't)



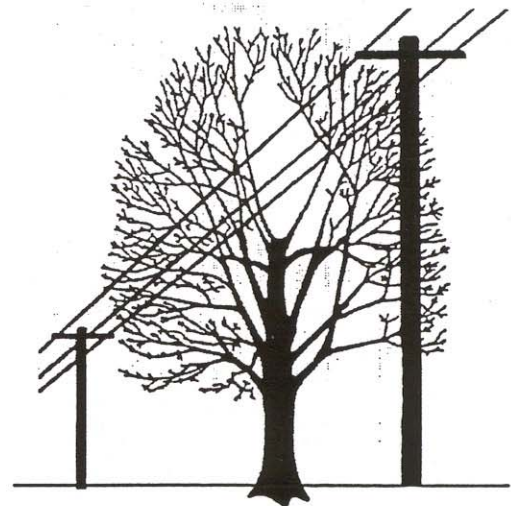
After Top Trimming



After Side Trimming



After Under Trimming



After Through Trimming

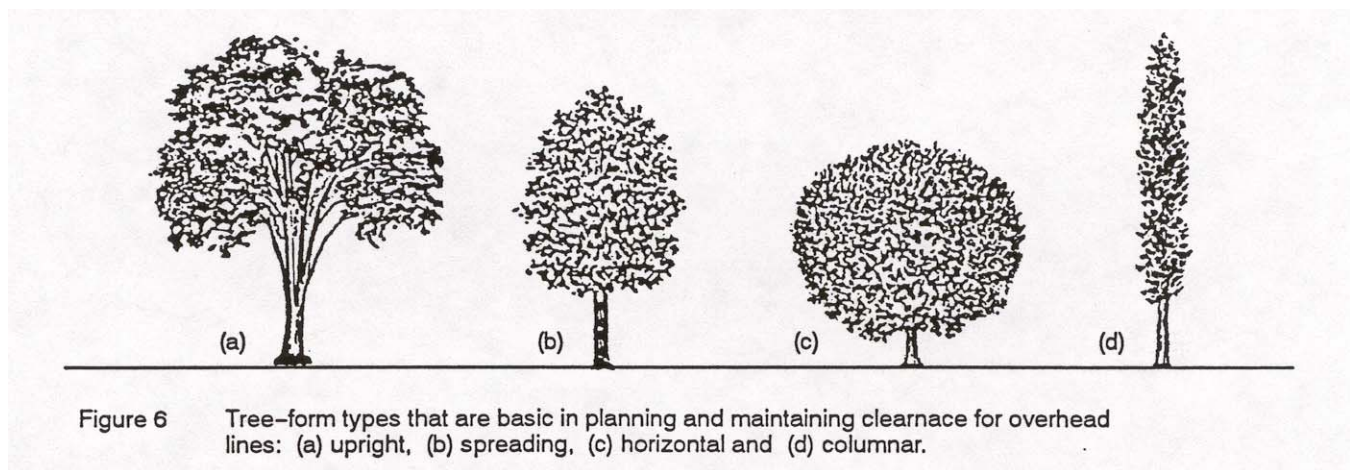
Figure 5. Four types of natural trimming.

ANSI A300 “American Standard for Tree Care Operations – Tree, Shrub and Other Woody Plant Maintenance – Standard Practices”, presents performance standards for the care and maintenance of trees and should be considered a part of this appendix and adhered to in tree operations under this policy.

Techniques

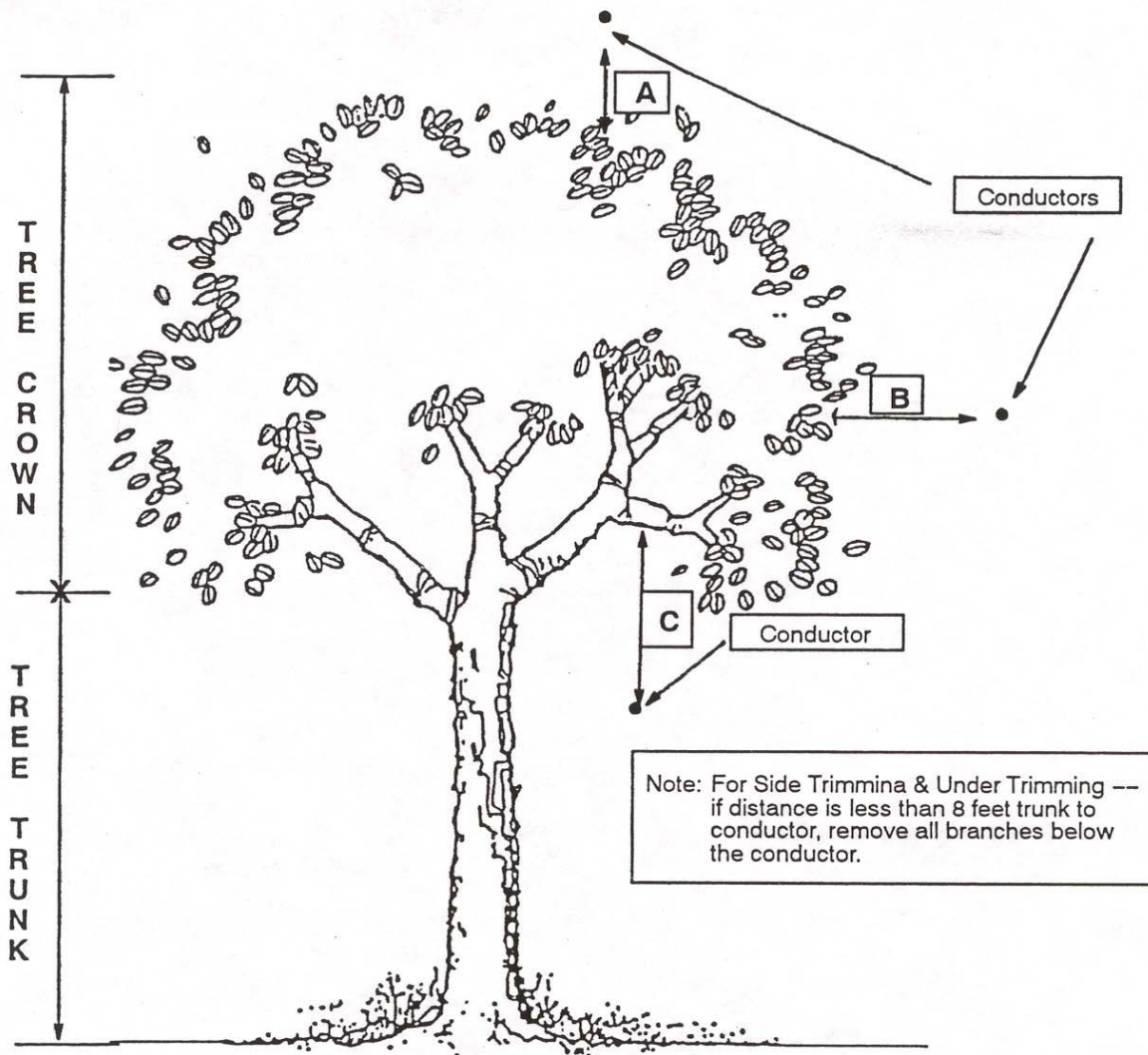
Proper clearance for any type of overhead line is measured not only in feet of clearance but in effectiveness. Both tree and overhead line characteristics must be known to get the maximum effective clearance for each tree. Clearance not only must be adequate when the tree is trimmed but must last. Therefore, each tree should be trimmed so it will need less work at the next trim cycle.

Before tree trimmers begin work, they plan how they are going to trim each tree. Consideration is given to how and when a tree is going to re-grow after it is trimmed. Trees can usually be placed into one of four tree-form types: upright, spreading, horizontal or columnar (Figure 6). If possible, the natural form of the tree should be maintained so that it does not look heavily trimmed.



All line clearance tree pruning should be done in accordance with the American National Standard Safety Requirements for Pruning, Repairing, Maintaining and Removing Trees, and for Cutting Brush” (ANSI Z133.1). The ANSI Z133 standard provides safety criteria for line clearance tree trimmers and the public. Minimum working distances from energized conductors are listed and must always be observed.

EXHIBIT 1



Note: Our objective is to obtain trim clearances as indicated. However, extenuating circumstances may dictate that lesser clearances be accepted.

CLEARANCE	TYPE OF TRIMMING	MINIMUM CLEARANCE FOR 25 KV OR BELOW *
"A"	Topping	8 Feet
"B"	Side Trimming	8 Feet
"C"	Under Trimming (Remove overhang situations where possible)	12 Feet **

* Services should be trimmed only to avoid contact.

** Thin, lighten, or shorten limbs above this point on pines to prevent snow loading.

Secondary electric lines shall be cleared for a minimum clearance of three feet.

Boston Edison Company

Capital Expenditures

Year Ending December 31, 2003



Appendix 8

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Distribution:											
	Framingham	Retire Station 360	-	-	-	-	-	-	-	54	457	-
	Mass Ave	Retire Primary Network Unit 9 Roxbury	-	-	-	-	-	-	-	747	277	(2)
	Mass Ave	Relieve the Newton line	-	-	-	-	-	-	-	293	197	-
	Various	Field Support - External Activities	-	-	-	-	-	-	1	-	-	-
	Various	Substation Data Collection System	-	-	-	-	-	-	91	-	-	-
	Mass Ave	Bovis Construction Avery/Wash St, Boston	-	-	-	-	-	-	252	175	9	-
	Waltham	Panametric Tech Kendrick St Needham	-	-	-	-	-	-	108	106	1	-
	Mass Ave	Northeastern University, Davenport St Commons	-	-	-	-	-	-	195	18	-	-
	Waltham	GTE - 100 Metro North, Woburn	-	-	-	-	-	-	-	304	16	-
	Framingham	Tech Commons - Speen St, Natick	-	-	-	-	-	-	(25)	5	59	4
	Walpole	The Summit Rosemont Rd Westwood	-	-	-	-	-	-	304	81	3	-
	Mass Ave	Scheppens Eye Res., 20 Staniford St - Boston	-	-	-	-	-	-	149	65	-	-
	Mass Ave	Modern Continental Construction - 470 Atlantic Ave., Boston	-	-	-	-	-	-	-	615	-	-
	Mass Ave	Boston Athenaeum - 10 1/2 Beacon St	-	-	-	-	-	-	(104)	477	31	9
	Framingham	EMC Research & Development Building	-	-	-	-	-	-	-	2	60	65
	Mass Ave	Genzyme - Install New Supply Station - Allston	-	-	-	-	-	-	-	37	-	-
	Mass Ave	Globix Internet 2 Line Customer Substations	-	-	-	-	-	-	-	16	447	25
	Mass Ave	Broad & Wendell - 109 Broad Street, Secondary Network Vault 244	-	-	-	-	-	-	-	196	33	10
	Various	Engineering Special Purchase 25/4KV Mobile Substation	-	-	-	-	-	-	-	7	-	-
	Mass Ave	4kv Convert Circuit 8N9, Roxbury	-	-	-	-	-	-	-	272	320	-
	Mass Ave	Establish Secondary Network Vault 464 - Columbus Ave - Boston	-	-	-	-	-	-	-	3	120	9
	Mass Ave	Relieve Brighton 13.8kv Distribution	-	-	-	-	-	-	-	426	-	-
	Mass Ave	New Brookline Village Supply	-	-	-	-	-	-	-	955	18	-
	Mass Ave	Relieve Coolidge Corner 506-05,07,9	-	-	-	-	-	-	-	247	13	-
	Mass Ave	Increase Supply Medical / Fenway Area	-	-	-	-	-	-	-	1,859	1,602	-
	Mass Ave	Relieve Walpole Line Group	-	-	-	-	-	-	-	216	19	-
	Mass Ave	Relieve Arlington Line Group and Station #59	-	-	-	-	-	-	-	435	670	-
	Mass Ave	Establish Tertiary Network Vault @ 1 Lincoln St - Boston	-	-	-	-	-	-	-	43	466	56
	Somerville	Internet 200 Innerbelt	-	-	-	-	-	-	-	112	341	15
	Waltham	Replace Direct Buried Cable - Stearns Hill Rd - Waltham	-	-	-	-	-	-	-	4	2	5
	Various	Increase Capacity at Station 488 - Chelsea	-	-	-	-	-	-	-	591	64	-
	Various	Network Spare Transformer	-	-	-	-	-	-	-	335	2,613	(1)
	Mass Ave	Tufts Univ., 150 Harrison Ave - Boston	-	-	-	-	-	-	-	137	330	-
	Mass Ave	Markley Stearns Boston - 1 Summer St.	-	-	-	-	-	-	-	(68)	21	1
	Walpole	University Ave Westwood 2% surcharge to switch from OH to Underground	-	-	-	-	-	-	-	442	11	(438)
	Framingham	Improve Reliability of Circuit 342-H1	-	-	-	-	-	-	-	2	192	353
	Walpole	Relieve Circuit 65-H3 Step-downs	-	-	-	-	-	-	-	2	97	-
	Mass Ave	Increase Secondary Network Vault 480 - Newbury St - Boston	-	-	-	-	-	-	-	2	86	-
	Various	Temporary Customer	-	8	(41)	(34)	4	-	-	-	-	-
	Various	Distribution Capacitor	-	-	-	-	-	-	-	-	-	-
	Various	Rebuild Hospital Area	-	-	5	30	10	-	-	-	-	-
	Various	Various Stations - Replace PCB's	-	-	-	-	-	-	-	-	-	-
	Various	Replace PCB Capacitors	-	(2)	2	4	-	-	-	-	-	-
	Various	Various Station Miscellaneous Stations Additions	-	-	-	-	1	0	(0)	-	-	-
	Somerville/Waltham	Act of Public Authority - Washington St - Somerville	-	-	-	-	-	-	-	-	-	-
	Various	Station 450 Recloser Switches	(1)	-	-	-	-	-	-	-	-	-
	Various	Underground and Overhead Development	-	1	-	-	-	-	-	-	-	-
	Various	Street - Distribution Equipment	-	13	-	-	-	-	-	-	-	-
	Various	Street Lighting	-	4	-	-	-	-	-	-	-	-
	Various	Station 12 - Chatham Street	-	-	-	-	0	-	-	-	-	-
	Various	New Station #12 - Street	(2)	-	-	-	-	-	-	-	-	-
	Various	Station 274 Expansion	-	-	-	-	-	-	-	-	-	-
	Various	Renewal to Electric System	-	(8)	-	-	-	-	-	-	-	-
	Various	Various Station Miscellaneous Stations Additions	-	-	-	-	-	-	-	-	-	-
	Mass Ave	Reconductor Circuit 3623 - Brighton	(4)	-	-	-	-	-	-	-	-	-
	Various	Back Up Battery System	(9)	(1)	-	-	-	-	-	-	-	-
	Mass Ave	Disconnect Street Service	-	(4)	-	-	-	-	-	-	-	-
		Auburn St - Raytheon	(1)	-	-	-	-	-	-	-	-	-
	Various	Substation - Distribution	-	-	-	-	-	-	-	-	-	-
	Various	Street Distribution Equipment	-	(4)	-	(0)	-	-	-	-	-	-
	Various	Minor Capital Additions Distribution	-	(1)	-	(2)	-	-	-	-	-	-
	Various	Renewal to Electric System	-	(2)	-	-	-	-	-	-	-	-

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
		Transformer Top Oil Monitoring	(41)	-	-	-	-	-	-	-	-	-
Various		Rebuild Circuit 211-503/	1	-	-	-	-	-	-	-	-	-
		Retire Quincy Facility	33	-	14	-	-	-	-	-	-	-
		Radio Control sectionalizing	1	-	-	-	-	-	-	-	-	-
		Station 211 Autotransformer Modification	-	153	-	-	-	-	-	-	-	-
		Relocate Circuit 292-03,08,H8	83	-	-	-	-	-	-	-	-	-
		Increase Capacity Ashland/Hopkinton	-	81	54	8	-	-	-	-	-	-
		Install Fault Indicator	-	1	-	0	-	-	-	-	-	-
		Retire Station 330 Needham Station Work	62	40	(1)	-	-	-	-	-	-	-
		Retire Equipment Station 330 Needham	12	4	-	-	-	-	-	-	-	-
		Telecom Upgrade	-	-	-	-	-	-	-	-	-	-
		Purchase Property - Hopkinton	1	-	-	-	-	-	-	-	-	-
Various		Pump Plant Replace -Station 7	5	-	-	-	-	-	-	-	-	-
Various		Replace Obsolete Terminals	72	-	-	-	-	-	-	-	-	-
Various		Retire Line 398-537 Station 39	4	-	-	-	-	-	-	-	-	-
		Reconductor Circuit 21N31 - Roxbury	62	101	2	-	-	-	-	-	-	-
		Various Station - Off Line work	-	-	-	-	-	-	-	-	-	-
		Station 375 13.8kv Switchgear	-	-	-	-	-	-	-	-	-	-
Various		Underground and Overhead Development	-	33	11	(0)	-	-	-	-	-	-
Various		Substation Distribution	64	236	(91)	82	(47)	-	-	-	-	-
Various		New Customer Service	374	65	297	45	0	0	-	-	-	-
Various		System Improvement	194	(3)	-	-	-	-	-	-	-	-
Various		Street Lighting	-	52	28	(3)	1	3	-	-	-	-
Various		Communication Upgrade - Various Circuits	16	-	-	(8)	-	-	-	-	-	-
Various		Various Stations - Replace Roofs	-	1	-	-	-	-	-	-	-	-
		Station 492 13.8kv Switchgear	-	-	-	-	-	-	-	-	-	-
		Disconnect/Reconnect Control Section Board	-	1	-	-	-	-	-	-	-	-
		Station 514 - add Platform	-	-	-	-	-	-	-	-	-	-
		Automate Station 250 - Mystic Station Everett	1	3	-	-	-	-	-	-	-	-
		Install Digital Transient	1	-	-	-	-	-	-	-	-	-
		Station 12	49	4	-	-	-	-	-	-	-	-
		Tertiary Network Vault - 13.8kv Vacuum Switch	-	-	2	5	-	-	-	-	-	-
Mass Ave		Establish Secondary Network Vault 101 - Boston Street Work	22	-	-	-	-	-	-	-	-	-
Mass Ave		Establish Secondary Network Vault 101 - Boston Street Work	-	-	-	0	-	-	-	-	-	-
		Replace Power Line Carrier	623	89	(118)	-	-	-	-	-	-	-
Mass Ave		Circuit 52-12 College Ave - Boston	-	-	-	-	-	-	-	-	-	-
Various		North Ave Bridge Approach	5	-	-	-	-	-	-	-	-	-
Various		Establish Conduit System	98	153	-	-	-	-	-	-	-	-
Various		Replace Fiber Main Distribution	95	10	-	-	-	-	-	-	-	-
		Reconductor Circuit 13-10	16	-	-	-	-	-	-	-	-	-
		Reconductor Circuit 13-08	-	-	-	-	-	-	-	-	-	-
Mass Ave		Relieve 139-09 SB Street Work	-	-	-	-	-	-	-	-	-	-
		Distribution Auto Pilot Program	142	5	-	-	-	-	-	-	-	-
Various		Reconstruct Washington Street - Jamaica Plain	187	8	-	-	-	-	-	-	-	-
		Install Conduit & Cabinet - W. 4th St	-	-	-	-	-	-	-	-	-	-
		Rebuild Circuit 293-01	-	-	-	-	-	-	-	-	-	-
		Rebuild Circuit 49-02,07	1	-	-	-	-	-	-	-	-	-
		Relieve & Reconfigure Circuit 306-0	75	77	-	-	-	-	-	-	-	-
		Convert 4kv to 15kv Underground Charlestown	2	-	-	-	-	-	-	-	-	-
Various		Create Circuit 64-H4	2	(21)	-	-	-	-	-	-	-	-
		Circuit 311-1406H1 Milton	83	-	-	-	-	-	-	-	-	-
		Relieve Circuit 342-H4 Sudbury	-	-	-	-	-	-	-	-	-	-
		Extend Circuit 292-H8 - Newton	-	-	-	-	-	-	-	-	-	-
Various		NEPEX Direct Rep Project	1	-	-	-	-	-	-	-	-	-
Various		EE & SO Indirect Engineering	153	22	-	-	-	-	-	-	-	-
Various		Decision Support	-	-	-	-	-	-	-	-	-	-
		A/P Document Imaging	-	-	15	-	-	-	-	-	-	-
Various		Metro Transmission & Distribution Equip & Tools	(5)	-	-	-	-	-	-	-	-	-
Various		Transmission & Distribution Renewals Metro	(33)	(1)	9	-	-	-	-	-	-	-
Various		Transmission & Distribution Renewals - Substation	-	4	1	(1)	-	-	-	-	-	-
Various		Metro Transmission & Distribution Asbestos Removal	-	-	-	-	-	-	-	-	-	-
Various		Metro Transmission & Distribution Indirect Labor	5	-	-	-	-	-	-	-	-	-
Various		Distribution Transformer Equipment	-	(2)	(5)	-	-	-	-	-	-	-
Various		Alterations & Improvements	1	-	-	(6)	-	-	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Various	Building Service Equip	-	-	-	-	-	-	-	-	-	-
	Various	Electric Design Expansion	216	-	-	-	-	-	-	-	-	-
		Hyde Park Canopy	(20)	-	-	-	-	-	-	-	-	-
		Fuel Tank Reinforcement - Waltham	-	-	-	-	-	-	-	-	-	-
	Various	Acts of Public Authority	-	1	1	(3)	-	-	-	-	-	-
	Various	Various Station Replacement Failures	-	7	-	-	-	-	-	-	-	-
	Various	Various Station Replacements	1	1	-	-	-	-	-	-	-	-
		Mobile Radio Equipment	-	-	-	-	-	-	-	-	-	-
		Re-Feed Polaroid	211	(48)	-	-	-	-	-	-	-	-
		Millis Supply Security	68	-	-	-	-	-	-	-	-	-
	Various	Radio Control sectional	957	657	84	119	51	-	-	-	-	-
		Station 24 Women's Locker - Crew reporting	21	-	-	-	-	-	-	-	-	-
		Station 24 Men's Locker - Crew reporting	4	-	-	-	-	-	-	-	-	-
		Station 20 Women's Locker - Crew reporting	37	-	-	-	-	(0)	-	-	-	-
		Station 20 Men's Locker - Crew reporting	45	-	-	-	-	-	-	-	-	-
		Secondary Network Vault - Install Distribution Switch	16	-	-	-	-	-	-	-	-	-
		Tertiary Network Vault - Remove/Install	-	-	-	-	-	-	-	-	-	-
		Convert Station 118 - 4kv	47	3	101	2	-	-	-	-	-	-
		Retire Station 118 - 4kv	-	-	-	7	-	-	-	-	-	-
		Retire Station 118 - 4kv	241	34	31	-	-	-	-	-	-	-
	Mass Ave	Replace Split Fiber Main	131	187	-	-	-	-	-	-	-	-
		Norfolk Land Acquisition	-	-	-	-	-	-	-	-	-	-
		MATEP Supply	491	40	1	-	-	-	-	-	-	-
	Various	Alewife Bridge Replacement	-	(14)	-	-	-	-	-	-	-	-
	Various	Station 509 - Alewife Bridge	8	(8)	-	-	-	-	-	-	-	-
	Various	Station 65 - Rebuild Ring	32	2	50	2	(135)	-	-	-	-	-
		Station 446 R - Replace Annunciator	9	28	-	-	-	-	-	-	-	-
		Station 433 Auto Substation	131	22	9	0	-	-	-	-	-	-
	Various	Various Substations Minor Additions	4	(1)	-	-	-	-	-	-	-	-
		Station 514 - 15kv Switchgear	45	-	-	-	-	-	-	-	-	-
		Station 60 Transformer & Relay	-	-	-	-	-	-	-	-	-	-
	Various	Cathodic Protection	8	-	-	-	-	-	-	-	-	-
		Station 400 - Replace Battery	2	-	-	-	-	-	-	-	-	-
		Replace Circuit Breakers	27	-	-	-	-	-	-	-	-	-
		Station A533 SCADA Cable	-	-	-	-	-	-	-	-	-	-
		Establish Circuit 48 Reg Bldg	9	-	-	-	-	-	-	-	-	-
		Install Toilet Station 51	1	-	-	-	-	-	-	-	-	-
		Security Control Line Group	4	-	-	-	-	-	-	-	-	-
		Act of Public Authority NW DUD	215	-	-	-	-	-	-	-	-	-
		Station 33 Locker Room	(19)	-	-	-	-	-	-	-	-	-
		Station 250 Locker Room	(24)	-	-	-	-	-	-	-	-	-
		Station 402,Replace Station Server	-	2	60	-	-	-	-	-	-	-
		Various Stations - off-line work	-	-	-	-	-	-	-	-	-	-
		Secondary Network Vault 86	8	1	17	(5)	-	-	-	-	-	-
		Secondary Network Vault 127	4	1	4	(2)	-	-	-	-	-	-
		Secondary Network Vault 132	6	1	4	(3)	-	-	-	-	-	-
		New Secondary Network Vault - North End	5	47	3	-	-	-	-	-	-	-
		New Secondary Network Vault - North End	114	65	96	30	-	-	-	-	-	-
		Secondary Network Vault 263A&B	14	2	42	19	-	-	-	-	-	-
		Secondary Network Vault 316	4	1	4	(4)	-	-	-	-	-	-
		Underground and Overhead Development	101	39	15	(0)	-	-	-	-	-	-
		Install Tertiary Network Vault 662	1	-	-	-	-	-	-	-	-	-
	Various	New Customer Service	1,528	72	3	(1)	5	1	-	-	-	-
	Various	System Improvement	-	100	118	7	(128)	-	-	-	-	-
		Street Lighting	-	11	20	(5)	1	-	-	-	-	-
		Secondary Network Vault 16	28	-	-	-	-	-	-	-	-	-
		Station 292 Load Relief	1	-	-	-	-	-	-	-	-	-
		Discontinue Circuit 36	-	-	-	-	-	-	-	-	-	-
		Station 202	-	-	-	-	-	-	-	-	-	-
		Install 3 Phase Relays	(39)	-	-	-	-	-	-	-	-	-
		Install 3 Phase Relays	-	2	11	-	-	-	-	-	-	-
	Various	Install Transformer Recloser	67	-	-	-	-	-	-	-	-	-
		Secondary Network Vault 299 Perl St	46	14	-	0	-	-	-	-	-	-
		Relieve Circuit - Commerce Ct	35	-	-	-	-	-	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
		Reroute Circuit 65-H3	154	4	-	-	-	-	-	-	-	-
		Remove Step-Downs	-	-	52	-	-	-	-	-	-	-
Various		New Northern Ave Duct	23	49	-	-	1	-	-	-	-	-
		Brighton - 15kv Conversion	346	19	139	0	-	-	-	-	-	-
		Station 211 - 509 Circuit Breaker	2	-	(22)	-	-	-	-	-	-	-
		Relief Circuit 477-01 Brighton	27	17	-	-	-	-	-	-	-	-
		Act of Public Authority - 2nd Ave Reconstruction	102	-	-	-	-	-	-	-	-	-
		Street Work Bear Hollow Rd Wayland	42	-	-	-	-	-	-	-	-	-
		Purchase Power Quality	-	-	-	-	-	-	-	-	-	-
		Winchester Upgrade	17	13	-	-	-	-	-	-	-	-
		Secondary Network Vault - Install Network Transformer	30	7	61	-	-	-	-	-	-	-
		Replace Network Transformer	3	-	-	-	-	-	-	-	-	-
		Secondary Network Vault 193 A&B Station 30	34	-	-	-	-	-	-	-	-	-
		New Secondary Network Vault 102	63	-	-	-	-	-	-	-	-	-
		Replace Network Transformer	62	1	7	0	-	-	-	-	-	-
		Station 450 ALD Modification	-	-	-	-	-	-	-	-	-	-
		Station 470 ALD Modification	2	-	-	-	-	-	-	-	-	-
		Station 416 ALD Modification	2	-	-	-	-	-	-	-	-	-
		Act of Public Authority - South Artery Quincy	-	-	-	-	-	-	-	-	-	-
Various		Metro Transmission & Distribution Equipment & Tools	-	-	-	-	-	-	-	-	-	-
Various		Transmission & Distribution Renewals - Metro	(39)	92	-	-	-	-	-	-	-	-
Various		Metro Transmission & Distribution Paving	-	-	-	-	-	-	-	-	-	-
Various		Transmission & Distribution Renewals Substation	-	8	1	(0)	-	-	-	-	-	-
Various		Metro Transmission & Distribution Asbestos Removal	96	-	-	1	-	-	-	-	-	-
Various		Indirect Engineering - Distribution	-	(45)	-	-	-	-	-	-	-	-
Various		Metro Transmission & Distribution Indirect Labor	-	-	-	-	-	-	-	-	-	-
Various		Distribution Transformer Equipment	-	86	43	55	2	-	-	-	-	-
Various		Garage Equipment	13	-	-	-	-	-	-	-	-	-
Various		Alterations & Improvements	132	-	-	-	-	-	-	-	-	-
Various		Building Service Equipment	1	-	-	-	-	-	-	-	-	-
Framingham		Framingham Service Center Truck Canopy	38	-	-	-	-	-	-	-	-	-
Watertown		Watn Materials Mgmt Center Space Expansion	(12)	-	-	-	-	-	-	-	-	-
		Replace Emergency Generator - Somerville	10	-	-	-	-	-	-	-	-	-
		Environmental Risk Management System	-	-	2	-	-	-	-	-	-	-
Various		Acts of Public Authority	239	166	2	10	-	-	-	-	-	-
		Replace/Repair Transformer	-	122	1	-	-	-	-	-	-	-
		Various Station Equipment/Tools	-	11	-	-	-	-	-	-	-	-
		Replace Wear/Tear/Obsolete	-	43	-	-	-	-	-	-	-	-
		Station 467 - 13.8kv Switchgear	726	25	2	2	-	-	-	-	-	-
		Station 483 - 13.8kv Switchgear	602	27	(2)	-	-	-	-	-	-	-
		Replace Transformer Station 566	-	40	-	-	-	-	-	-	-	-
Various		Upgrade Transmission Power System	266	170	-	-	-	-	-	-	-	-
Various		Real Time 148-522XY	57	38	-	-	-	-	-	-	-	-
Various		South Boston Demo	138	684	82	2	23	2	-	-	-	-
		Station 373 Switchgear Transfer	104	4	-	-	-	-	-	-	-	-
		Install Ventilation Station 28	13	-	-	-	-	-	-	-	-	-
		Expand Station 488	2	95	34	8	-	-	-	-	-	-
Various		Reconductor Wellesley Circuit 41-212	(3)	-	-	0	111	-	-	-	-	-
		SCADA Control for Various Locations	251	7	2	1	-	-	-	-	-	-
		Install Power Quality Meter	46	121	1	-	-	-	-	-	-	-
Various		Station 488	-	-	-	5	-	-	-	-	-	-
Various		Replace Breakers Station 224	45	36	(9)	-	0	-	-	-	-	-
Various		Load Growth/Improvement/Reliability	28	55	-	-	-	-	-	-	-	-
		Station 492 Replace Transformer	-	91	49	0	-	-	-	-	-	-
		Replace Network Transformer	-	59	8	-	-	-	-	-	-	-
		Station 433 New H9 Circuit	8	7	13	1	-	-	-	-	-	-
Various		Station 446R Install Distribution Network	111	56	-	-	-	-	-	-	-	-
		Station 514N Replace Transformer	-	9	161	-	-	-	-	-	-	-
		Purchase Structure	27	3	-	-	-	-	-	-	-	-
Various		Establish Multi Customer13:BCH	177	(7)	3	-	-	-	-	-	-	-
		Improve Reliability Chestnut Hill	99	-	-	-	-	-	-	-	-	-
		Station 250 Transformers 110F	645	(387)	-	-	-	-	-	-	-	-
		Electric Document Management System	262	47	-	-	-	-	-	-	-	-
		Establish Secondary Network Vault 284-64-70	-	59	34	23	5	-	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
		Replace Network Transformer/Protectors	51	-	-	-	-	-	-	-	-	-
		Auto Bus Restoral	-	18	-	-	-	-	-	-	-	-
Various		New Customer Business	3,037	2,824	438	(14)	(13)	(4)	-	-	-	-
		Minor Capital Additions	2,692	992	46	66	0	1	-	-	-	-
Various		Street Lighting	670	245	44	(0)	2	2	-	-	-	-
		Testboard Replacement	1	32	-	-	-	-	-	-	-	-
		Infrared Systems	57	-	-	-	-	-	-	-	-	-
		Establish New Tertiary Network Vault 6194	4	81	-	3	-	-	-	-	-	-
		ZMWE EWPL @ FED RES	140	(100)	-	-	3	-	-	-	-	-
		Establish Secondary Network Vault 245 Beacon St	6	42	6	-	-	-	-	-	-	-
Various		Extend 146-H8 Wal/Shar	179	151	22	-	-	-	-	-	-	-
		Overhead Oil Switch 4kv Replacement	139	107	-	(1)	-	-	-	-	-	-
		Overhead Oil Switch 4kv Replacement	45	6	3	-	-	-	-	-	-	-
		Overhead Oil Switch 4kv Replacement	119	-	-	-	-	-	-	-	-	-
		Establish Circuit 50 Boston Police Headquarters	-	1	92	-	-	-	-	-	-	-
		Establish Circuit 49 Mass College	2	114	-	-	-	0	-	-	-	-
		Replace Split Fiber Main Distribution	348	75	-	-	-	-	-	-	-	-
		Replace Power Line Carrier L325,L316	469	247	-	-	-	-	-	-	-	-
		Establish Secondary Network Vault 189 Station Work	3	-	-	-	-	-	-	-	-	-
Somerville/Waltham		Establish Secondary Network Vault 189 Street	72	6	-	-	268	119	-	-	-	-
		Establish Circuit 53 New England Telephone	-	51	8	-	-	-	-	-	-	-
		Improve Circuit 416-H3	4	14	56	-	-	-	-	-	-	-
Various		Improve Reliability	76	210	3	251	9	-	-	-	-	-
Various		Switchyard Upgrade Station 650	1,683	879	-	-	-	-	-	-	-	-
		Station 369 - Newton	-	32	-	-	-	-	-	-	-	-
		SONET Test Equipment	34	-	-	-	-	-	-	-	-	-
		Willis Rd Sudbury	-	113	-	0	-	-	-	-	-	-
Mass Ave		Station 20 Prefab Building	-	51	-	-	-	-	-	-	-	-
		Station 146 Storage Building	-	9	(1)	-	-	-	-	-	-	-
		Establish Distribution Circuit	-	3	2	-	-	-	-	-	-	-
		Auto Bus Restoral	-	37	-	-	-	-	-	-	-	-
		Replace Network Transformer	-	-	267	3	-	-	-	-	-	-
		Establish Secondary Network Vault 289	-	109	1	0	-	-	-	-	-	-
Various		Turnpike St - Canton	24	1	69	1	12	-	-	-	-	-
		Hydran Dissolved Gas System	29	-	-	-	-	-	-	-	-	-
		Carlisle Circuit Upgrade	106	183	6	-	-	-	-	-	-	-
		INAR ZMWE @FED RES	1	2	-	-	(3)	-	-	-	-	-
		Upgrade Somerville Supply	217	32	45	2	-	-	-	-	-	-
		Three Phase Metering	-	-	-	-	-	-	1	-	-	-
		Station 282 Install Distribution Hydrant Vacuum	-	-	-	1	-	-	-	-	-	-
		Network Transformer Emersion	-	32	-	98	-	-	-	-	-	-
Somerville/Waltham		North End Conversion	25	-	-	71	185	184	-	-	-	-
		Information Service Indirect Engineering	3,413	-	-	-	-	-	-	-	-	-
		Interchange Metering	-	-	-	-	-	-	-	-	-	-
Various		Field Services Systems	-	-	630	87	25	-	-	-	-	-
		Purchase Equipment & Tools	68	-	-	-	-	-	-	-	-	-
Various		Like for Like Replacement	13,188	597	(4)	(5)	(18)	-	-	-	-	-
		Paving	-	8	3	-	-	-	-	-	-	-
		Purchase Equipment & Tools	17	6	-	-	-	-	-	-	-	-
Various		Indirect Engineering & Supervision	2,167	-	-	-	-	-	-	-	-	-
Various		Indirect Engineering & Supervision N/E	2,592	-	-	-	-	-	-	-	-	-
Various		Purchase Equipment & Tools	32	4	-	-	-	-	-	-	-	-
Various		Indirect Engineering & Supervision	4,967	-	-	-	-	-	-	-	-	-
Various		Purchase of Distribution Transformers	-	597	626	564	360	155	-	-	-	-
		Alter/Improve Off-Service	615	-	-	-	-	-	-	-	-	-
		Building Service Equipment	26	-	-	-	-	-	-	-	-	-
		Design Project Management	-	-	(7)	-	-	-	-	-	-	-
Various		Acts of Public Authority	-	199	133	26	93	(141)	-	-	-	-
		Lab Blanket	-	393	27	-	-	-	-	-	-	-
Various		Failure in Service	-	237	186	-	-	-	-	-	-	-
		Various Station Portable Tools	-	70	27	-	-	-	-	-	-	-
		Replace/Wear/Tear/Obsolescence	-	82	11	-	-	-	-	-	-	-
		Retire Station 118 - 4kv	-	3	6	-	-	-	-	-	-	-
Mass Ave		Major Customers SAS	-	10	4	10	-	-	0	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Various	Extend Circuit	-	221	21	-	-	-	-	-	-	-
	Various	Rebuild MATEP Line	-	832	134	-	-	-	-	-	-	-
	Various	Retire Station 303	-	38	2	-	-	-	-	-	-	-
	Framingham/Walpole	Relocate Circuit 282-H8	-	1	2	-	657	46	0	-	-	-
	Various	Install Network Transformer	-	1	6	155	1	-	-	-	-	-
	Mass Ave	Boston College New Supply	-	84	205	116	-	10	174	434	-	-
	Framingham/Walpole	Improve Newton Power Supply	-	205	21	0	22	-	-	-	-	-
		Reconductor Circuit 516-08	-	163	(2)	-	-	-	-	-	-	-
		Establish Secondary Network Vault 29	-	58	6	-	-	-	-	-	-	-
		Secondary Network Vault - Huntington - Boston	-	18	56	-	0	-	-	-	-	-
		Station 329 Backflow	-	8	33	-	-	-	-	-	-	-
		Station 282 Backflow	-	6	1	-	-	-	-	-	-	-
		Establish Circuit 65-H5	-	-	293	-	-	-	-	-	-	-
	Various	Station 65 - 4kv	-	16	99	0	2	-	-	-	-	-
		Retire Station 65	-	354	6	-	-	-	-	-	-	-
		Station 125, 135 Replace Breaker	-	110	11	9	0	-	-	-	-	-
	Various	Replace Directional Relays	-	32	15	5	3	(0)	-	-	-	-
	Various	Replace Fiber Optic	-	1	-	-	-	-	-	-	-	-
	Various	Replace Station 33 Roof	-	107	-	-	4	-	-	-	-	-
		Monitoring Transformers	-	103	-	-	-	-	-	-	-	-
		Establish Station 35	-	70	-	1	-	-	-	-	-	-
	Various	Station 211 - Inst Digital Transient Recorder	-	22	-	4	-	-	-	-	-	-
		Edgar Station Roof	-	32	-	-	-	-	-	-	-	-
		Install Fiberoptic	-	11	-	-	-	-	-	-	-	-
		Establish Station 31	-	55	6	(65)	-	-	-	-	-	-
	Various	Install Oil Containment	-	2	-	3	-	-	-	-	-	-
	Various	Cathodic Protection	-	4	-	8	-	-	-	-	-	-
	Various	New Customer Business	(42)	3,744	2,994	708	17	(14)	2	-	-	-
	Various	Minor Capital Additions	3	2,919	897	180	2	2	0	-	-	-
	Various	Street Lighting	-	372	90	36	9	4	0	-	-	-
		Replace Overhead 4kv Oil Switch	-	93	-	(1)	-	-	-	-	-	-
		Power Quality Meter	-	40	-	-	-	-	-	-	-	-
		Relieve Circuit 586-161H	-	125	72	0	-	-	-	-	-	-
		Station 2 - 13.8kv Switchgear Bus	-	505	4	6	-	-	-	-	-	-
		Dobly Relay Test	-	77	10	(5)	-	-	-	-	-	-
		Replace Circuit Breaker	-	549	14	-	-	-	-	-	-	-
	Mass Ave	Convert Station 15 Station Work	-	20	81	152	1	(0)	-	-	-	-
	Mass Ave	Convert Station 15 Street Work	-	1,722	1,719	84	1	-	-	(18)	-	-
	Somerville/Waltham	Natick Conversion	-	-	70	29	64	8	-	-	-	-
		Oil Switch Replacement - S. West	-	-	-	(1)	-	-	-	-	-	-
		Oil Switch Replacement - S. West	-	20	-	-	-	-	-	-	-	-
	Mass Ave	Convert Station 14 Station Work	-	92	110	205	5	-	-	-	-	-
	Mass Ave	Convert Station 14 Street Work	-	830	686	87	24	3	-	-	-	-
		Tertiary Network Vault 684 - Boston	-	-	246	-	-	-	-	-	-	-
		Tertiary Network Vault 6189 - Boston	-	-	216	(19)	-	-	-	-	-	-
		Establish Secondary Network Vault 568	-	9	145	10	-	-	-	-	-	-
		Retire Secondary Network Vault 386	-	3	1	-	-	-	-	-	-	-
		Install Fiberoptic	-	602	-	-	-	-	-	-	-	-
	Various	North Communications	-	1,066	-	240	-	0	14	3	(17)	-
		Purchase Infrared Camera	-	-	57	-	-	-	-	-	-	-
		Capacity Upgrade Station 36	-	104	-	-	-	-	-	-	-	-
	Mass Ave	Convert Station 315 Station Work	-	-	16	88	10	23	-	-	-	-
	Mass Ave	Convert Station 315 Street Work	-	-	3,432	655	(1)	0	-	-	-	-
	Mass Ave	Convert Station 477 Station Work	-	-	-	-	20	24	-	-	-	-
	Mass Ave	Convert Station 477 Street Work	-	-	3,984	1,431	19	1	-	-	-	-
		Establish Secondary Network Vault 581	-	-	181	0	1	1	-	-	-	-
		Replace Transformer 24B	-	-	-	-	-	0	-	-	-	-
		Replace Transformer 24B	-	159	-	-	-	-	-	-	-	-
		MATEP Metering	-	17	4	-	0	-	-	-	-	-
	Various	Hopkinton Station 126 - Station Work	-	60	132	609	4,572	628	5	(1)	-	-
		Retire Transformer 24B	-	-	33	-	-	-	-	-	-	-
		Station 320 Control/Relay	-	4	-	0	-	-	-	-	-	-
		Establish Tertiary Network Vault 6190	-	-	111	338	-	-	-	-	-	-
		Detector Tertiary Network Vault 607	-	44	1	-	-	-	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
		Alternate Dispatch	-	6	-	-	-	-	-	-	-	-
		Retire Secondary Network Vault 281	-	-	1	-	-	7	-	-	-	-
		Establish Station 44	-	54	1	-	-	-	-	-	-	-
Various		Keep Cost	-	167	733	1,022	3	0	-	-	(44)	-
		Replace Tertiary Network Vault 6188	-	190	(28)	-	-	-	-	-	-	-
		Replace Tertiary Network Vault 6122	-	155	-	-	-	-	-	-	-	-
Waltham		Relocate Overhead to Underground	-	-	5	294	473	102	0	(89)	(167)	(19)
Various		Station 75 Neutral Transformer	-	-	75	86	2	-	-	-	-	-
		Paging System	-	5	-	0	0	-	-	-	-	-
		Information Service Indirect Engineering	-	3,949	4	-	-	-	-	-	-	-
		Replace Mag Tape	-	-	-	-	-	-	-	-	-	-
		Equipment & Tools	-	1	-	-	-	-	-	-	-	-
		Like for Like Underground	(2)	8,301	335	5	0	-	-	-	-	-
Various		Paving	-	806	1,406	2	-	-	-	-	-	-
Various		Like for Like Overhead	-	1,798	155	(18)	(16)	-	-	-	-	-
		Indirect Engineering	-	2,377	-	-	-	-	-	-	-	-
		Indirect Engineering & Supervision	-	2,618	3	0	-	-	-	-	-	-
		Equipment & Tools	-	14	(1)	-	-	-	-	-	-	-
		Indirect Engineering	-	4,968	-	-	-	-	-	-	-	-
		Purchase of Distribution Transformers	-	4,305	8,231	341	-	-	-	-	-	-
		System Meters	-	-	-	-	-	-	-	-	-	-
		Buildings/Alterations	-	-	1	-	-	-	-	-	-	-
		Service Equipment	-	-	3	-	-	-	-	-	-	-
		Woburn Service Center Shut Down	-	-	4	-	-	-	-	-	-	-
		Overhead Customer Work Order	-	-	39	-	-	-	-	-	-	-
		Purchase of Miscellaneous	-	-	11	-	-	-	-	-	-	-
Various		Cutoffs/Restorations	-	-	(181)	(63)	246	188	(469)	-	-	-
Somerville/Waltham		Replace Station 47-2	-	-	54	67	-	-	-	-	-	-
Somerville/Waltham		Replace Station 47-2	-	-	188	139	109	4	-	-	-	-
Various		Replace Transformer Station 211	-	-	294	2,214	45	1	-	-	-	-
		Establish Tertiary Network Vault 6196	-	-	154	16	-	-	-	-	-	-
		Establish Secondary Network Vault Station 427	-	-	30	8	-	-	-	-	-	-
		Split Fiber Main Replacement	-	-	135	-	0	-	-	-	-	-
		Retire Transformer Secondary Network Vault 24	-	-	3	-	-	-	-	-	-	-
Various		Police & Paving	-	-	3,356	2,461	2,696	-	-	-	-	-
		Distribution Transformers	-	-	163	40	-	-	-	-	-	-
		System Meters	-	-	-	-	-	-	-	-	-	-
		Survey & Records Supervisor Indirects	-	-	6,180	-	-	-	-	-	-	-
Various		Preliminary Capital Engineering Indirect	-	-	277	393	66	35	43	-	-	-
		Cust Div Buildings	-	-	154	55	-	-	-	-	-	-
Mass Ave		Customer Distribution Street Work	-	-	3,645	5,873	125	(26)	13	-	-	-
		Customer Distribution Station	-	-	980	210	1	0	-	-	-	-
Various		Street Lighting	-	-	273	92	24	1	-	-	-	-
		System Distribution Station work	-	-	119	62	-	-	-	-	-	-
Various		System Distribution Street Work	-	-	13,362	1,485	433	0	-	(16)	-	-
Mass Ave		Secondary Network Vault - 404	-	-	10	123	0	-	-	-	-	-
		Secondary Network Vault - 415	-	-	16	287	-	-	-	-	-	-
		Establish Station 414	-	-	49	23	-	-	-	-	-	-
		Retire Secondary Network Vault 57 A&B	-	-	293	(107)	-	-	-	-	-	-
		Establish Tertiary Network Vault 6201	-	-	112	234	1	-	-	-	-	-
		Replace Secondary Network Vault 34	-	-	-	94	-	-	-	-	-	-
		Implement Reliability Center Maintenance	-	-	85	58	-	-	-	-	-	-
Various		Galen St Reconductoring Watertown	-	-	-	312	92	1	-	-	-	-
		Replace Aerial Cable	-	-	75	9	-	-	-	-	-	-
		Secondary Network Vault - 387	-	-	133	-	-	-	-	-	-	-
Mass Ave		Establish Tertiary Network Vault 6200	-	-	30	112	0	-	-	-	-	-
		Establish Tertiary Network Vault 6199	-	-	100	24	0	-	-	-	-	-
Mass Ave		Convert Station 324 - Station Work	-	-	6	4	106	4	-	-	-	-
Mass Ave		Convert Station 324 - Street Work	-	-	1,111	240	24	0	1	-	-	-
		Re-Establish Secondary Network Vault 390B	-	-	-	53	0	-	-	-	-	-
		Replace Tertiary Network Vault 67	-	-	145	-	0	-	-	-	-	-
Mass Ave		Establish Tertiary Network Vault - Courthouse	-	-	4	322	5	-	-	-	-	-
		Establish Tertiary Network Vault 6198	-	-	46	211	-	-	-	-	-	-
Mass Ave		Convert Station 10 - Street Work	-	-	1,415	177	2	0	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Mass Ave	Convert Station 10 - Station Work	-	-	11	91	7	-	-	-	-	-
	Various	Improve Reliability - Needham	-	-	109	99	17	-	-	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6203	-	-	-	-	116	0	-	-	-	-
	Various - West	Hopkinton Station 126 - Street Work	-	-	11	10	988	64	0	-	-	-
	Various	Station 479 - station Work	-	-	36	-	-	-	-	-	-	-
		Storm Keep Cost	-	-	14	7	-	-	-	-	-	-
	Various	Keep Cost	-	-	-	14	1	14	1	-	-	-
	Walpole	Act of Public Authority - Underground Westwood	-	-	265	516	(10)	0	-	(411)	(143)	8
	Mass Ave	Establish Tertiary Network Vault 6197	-	-	-	358	3	1	-	-	-	-
	Mass Ave	Convert Station 8 - Station Work	-	-	1	5	8	29	-	-	-	-
	Mass Ave	Convert Station 8 - Street Work	-	-	1,935	2,007	73	2	0	3	-	-
	Mass Ave	Convert Station 283 - Station Work	-	-	609	(609)	7	-	-	-	-	-
	Mass Ave	Convert Station 283 - Street Work	-	-	3,547	1,747	16	8	-	-	-	-
	Mass Ave	Convert Station 306 - Station Work	-	-	7	5	26	2	2	-	-	-
	Mass Ave	Convert Station 306 - Street Work	-	-	5,949	2,258	78	13	-	-	-	-
	Mass Ave	Convert Station 340 - Station Work	-	-	-	-	20	62	-	-	-	-
	Mass Ave	Convert Station 340 - Street Work	-	-	3,505	1,053	45	3	-	1	-	-
	Various	Retire Hardware/Software	-	-	1	-	-	-	-	-	-	-
		Purchase Vehicle	-	-	46	-	-	-	-	-	-	-
		Lab Equipment	-	-	99	0	-	-	-	-	-	-
		Real Estate	-	-	71	-	-	-	-	-	-	-
		Plant Adjustment	-	-	233	-	-	-	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 436	-	-	-	88	162	39	3	-	-	-
	Various	Split Fiber Main Replacement	-	-	-	138	104	-	-	-	-	-
		Split Fiber Main Replacement	-	-	-	50	-	-	-	-	-	-
		Establish Secondary Network Vault 549	-	-	-	84	-	-	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 386	-	-	-	1	91	1	-	-	-	-
	Various	NYNEX To Fiber Conversion	-	-	-	477	27	8	-	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6204	-	-	-	1	6	1	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 589	-	-	-	9	4	1	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 582	-	-	-	178	(4)	1	-	-	-	-
	Mass Ave	Convert Station 454 Street Work	-	-	-	2,284	946	257	39	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6205	-	-	-	100	3	1	-	-	-	-
		System Event Track	-	-	-	126	-	-	-	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6178	-	-	-	-	99	68	-	-	-	-
	Mass Ave	Tertiary Network Vault 6195	-	-	-	-	0	-	-	-	-	-
		Tertiary Network Vault 641D - replacement	-	-	-	1	-	-	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 301B	-	-	-	-	4	-	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 441	-	-	-	-	23	89	-	-	-	-
	Mass Ave	4KV Somerville Primary Network Unit Street Work	-	-	-	843	261	2	-	-	-	-
		Fiberoptic Expansion	-	-	-	-	-	-	-	70	-	-
	Various	Line Transformers	-	-	-	8,308	234	-	-	-	-	5,452
	Mass Ave	Survey & Records	-	-	-	8,511	510	87	-	-	-	-
	Various	Preliminary Engineering	-	-	-	230	(0)	-	-	-	-	-
	Various	Customer Distribution Street Work	-	-	-	2,570	154	(19)	7	(1)	-	-
	Various	Customer Distribution Station	-	-	-	413	9	2	-	-	-	-
	Various	Street Lighting	-	-	-	146	28	1	0	-	-	-
	Various	System Distribution Station Work	-	-	-	59	13	2	-	-	-	-
	Various	System Distribution Street	-	-	-	11,227	500	23	-	-	-	-
	Various	System Distribution Street	-	-	39	-	-	-	-	-	-	-
	Various	Survey & Records	-	-	-	2,326	2,463	856	19	4	-	-
	Mass Ave	4kv Upgrade Roxbury	-	-	-	656	4	0	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 447	-	-	-	-	8	136	-	-	-	-
	Various	Station 450 Sound Walls	-	-	-	131	4	0	-	-	-	-
	Mass Ave	Establish Network Vault 419	-	-	-	161	3	-	-	-	-	-
	Mass Ave	Replace Transformer Secondary Network Vault 82	-	-	-	0	1	-	-	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6206	-	-	-	2	224	-	-	-	-	-
		B-D St. Ex-Haul Rd	-	-	-	5	0	-	-	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6207 A&B	-	-	-	3	144	1	-	-	-	-
		Upgrade Transformer Secondary Network Vault 388	-	-	-	0	-	-	-	-	-	-
		Secondary Network Vault 231 Increase Transformer Size	-	-	-	69	-	-	-	-	-	-
	Mass Ave	Secondary Network Vault 90 Failure	-	-	-	-	38	-	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 224A Arch St	-	-	-	9	30	0	-	-	-	-
	Mass Ave	Abandon Secondary Network Vault 233 A&B	-	-	-	4	16	6	-	-	-	-

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mass Ave	Establish Tertiary Network Vault 6208		-	-	-	0	186	0	-	-	-	-
Various	Install Network Transformer		-	-	-	-	60	3	-	-	-	-
Mass Ave	Replace Network Transformer		-	-	-	-	79	2	-	-	-	-
Mass Ave	Secondary Network Vault 567		-	-	-	-	10	17	-	-	-	-
Mass Ave	Secondary Network Vault 211		-	-	-	-	5	1	-	-	-	-
Mass Ave	Establish Tertiary Network Vault 6202		-	-	-	-	155	3	-	-	-	-
Mass Ave	Establish Secondary Network Vault 481		-	-	-	-	182	0	-	-	-	-
Mass Ave	Establish Secondary Network Vault 452 A&B		-	-	-	-	0	-	-	-	-	-
Mass Ave	Secondary Network Vault 37 Changeout		-	-	-	-	3	-	-	-	-	-
Mass Ave	Secondary Network Vault 56 Changeout		-	-	-	-	1	106	1	-	-	-
Various	Police		-	-	-	-	1,510	13	24	21	-	-
Various	Transformers		-	-	-	-	4,925	(65)	-	-	-	-
Various	Preliminary Engineering		-	-	-	-	221	78	-	-	-	-
Mass Ave	Convert Primary Network Unit 311 - Roxbury		-	-	-	-	1,926	236	-	-	-	-
Mass Ave	Establish Tertiary Network Vault 6209		-	-	-	-	269	1	24	-	-	-
Mass Ave	Improve Circuits		-	-	-	-	278	526	0	-	-	-
Mass Ave	13.8kv Brookline Village		-	-	-	-	272	74	-	-	-	-
Mass Ave	Convert Primary Network Unit 32		-	-	-	-	2,193	49	2	104	23	-
Mass Ave	Convert Circuits Station 293		-	-	-	-	1,046	301	-	-	-	120
Mass Ave	Remove Secondary Network Vault 244 A&B		-	-	-	-	205	25	1	-	-	-
Various	East Fifth Split Fiber Main Conversion		-	-	-	-	274	(0)	-	-	-	-
Various	Split Fiber Main Replacement		-	-	-	-	385	15	-	-	-	-
Somerville/Waltham	Convert Step Down Transformer		-	-	-	-	493	12	-	-	-	-
Mass Ave	Convert 284-01		-	-	-	-	374	1	-	-	-	-
Various	A Street		-	-	-	-	116	299	62	1	-	2
Waltham	US Gov National Park		-	-	-	-	4	1	0	-	-	-
Walpole	Reebok HQ		-	-	-	-	(86)	62	38	-	-	-
Various	Station 450 Expansion		-	-	-	-	7	1,715	1,953	2,158	118	-
Mass Ave	120 South Hampton St		-	-	-	-	2	-	-	-	-	-
Mass Ave	88 Exeter St - Boston		-	-	-	-	1	-	-	-	-	-
Waltham	Burlington Rd - Bedford		-	-	-	-	45	171	-	-	-	-
Mass Ave	Establish secondary Network Vault 200		-	-	-	-	1	177	-	-	-	-
Mass Ave	Establish Tertiary Network Vault 6211		-	-	-	-	-	270	-	-	-	-
Mass Ave	Establish Tertiary Network Vault 6212		-	-	-	-	1	229	-	-	-	-
Mass Ave	Establish New 496-H3		-	-	-	-	794	-	-	-	-	-
Various	Station 250 Doble Institute		-	-	-	-	63	166	16	1	-	-
Various	Hazeltine Monitoring		-	-	-	-	130	198	243	267	-	2
Various	Street Light Work		-	-	-	-	44	(14)	-	-	-	-
Various	SCADA Y2K		-	-	-	-	594	(18)	-	-	-	-
Mass Ave	New Customer - Everett St _ Brighton		-	-	-	-	171	0	-	-	-	-
Mass Ave	New Customer - Bay State Rd		-	-	-	-	65	88	11	4	58	-
Mass Ave	New Customer - Tremont St		-	-	-	-	7	-	-	-	-	-
Mass Ave	Secondary Network Vault 582		-	-	-	-	34	1	-	-	-	-
Mass Ave	Station 481		-	-	-	-	153	0	-	-	-	-
Mass Ave	New Customer State St		-	-	-	-	0	-	-	-	-	-
Mass Ave	Secondary Network Vault 436		-	-	-	-	42	59	-	-	-	-
Mass Ave	Tertiary Network Vault 6208		-	-	-	-	120	22	7	-	-	-
Mass Ave	New Customer - Lafayette Pl		-	-	-	-	86	8	-	-	-	-
Waltham	Act of Public Authority - Overhead to Underground S. Loomis		-	-	-	-	4	-	6	-	-	-
Waltham	MWRA Pumping		-	-	-	-	171	(41)	-	-	-	-
Waltham	Villages		-	-	-	-	254	9	-	-	-	-
Waltham	Cronins Landing		-	-	-	-	88	-	-	-	-	-
Waltham	Waltham Woods		-	-	-	-	285	36	-	-	-	-
Waltham	MWRA Shaft SA Temp		-	-	-	-	(91)	47	5	-	-	-
Waltham	Boston College		-	-	-	-	171	15	3	-	-	-
Waltham	Pine Meadows Carlisle		-	-	-	-	26	1	-	-	-	-
Waltham	Astra Corp		-	-	-	-	8	388	2	-	-	-
Waltham	Cabot St - Overhead & Underground		-	-	-	-	1	-	-	-	-	-
Somerville	Altron Inc - Woburn		-	-	-	-	89	4	0	-	-	-
Somerville	Station 487 - Sun Micro		-	-	-	-	153	2	-	-	-	-
Somerville	Somerville Housing Authority - Mystic		-	-	-	-	14	12	1	-	-	-
Framingham	175 Crossing Blvd. Framingham		-	-	-	-	140	-	-	-	-	-
Framingham	Leonard Morse Hospital - Framingham		-	-	-	-	0	-	-	-	-	-
Framingham	TJX Expansion Natick		-	-	-	-	-	12	135	4	-	-

Boston Edison												
2003 ASQR Capital Spending												
(Dollars in Thousands)												
Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Framingham	Staples Crossing Blvd - Framingham	-	-	-	-	115	0	-	-	-	-	
Framingham	The Sanctuary - Cottage St. Natick	-	-	-	-	277	2	(28)	3	12	-	
Mass Ave	New Customer 1601 Wash St	-	-	-	-	11	118	53	-	-	-	
Waltham	Sun Micro System	-	-	-	-	(110)	88	19	-	-	-	
Waltham	Raytheon 2nd Line	-	-	-	-	127	0	-	-	-	-	
Waltham	Overhead to Underground Bedford & Lexington	-	-	-	-	-	9	2	-	-	-	
Waltham	Overhead/Underground - Bedford	-	-	-	-	-	0	-	-	-	-	
Mass Ave	Planet Hollywood	-	-	-	-	11	164	(1)	1	1	-	
Mass Ave	BU Medical Center	-	-	-	-	1	39	1	-	-	-	
Mass Ave	25 Huntington Ave	-	-	-	-	3	(37)	11	-	-	-	
Mass Ave	Underground Circuit Emergency Replacement	-	-	-	-	2,497	327	2	-	-	-	
Mass Ave	Underground Reliability Improvements	-	-	-	-	297	28	0	-	-	-	
Mass Ave	Overhead Reliability Improvements	-	-	-	-	837	204	4	18	10	-	
Mass Ave	Overhead Reliability Improvements	-	-	-	-	231	23	0	-	-	-	
Mass Ave	Station Breaker/Transformer Failure	-	-	-	-	597	154	12	-	-	-	
Somerville	Underground Corrective/Emergency Replacement	-	-	-	-	1,056	36	-	-	-	-	
Somerville	Underground Reliability Improvements Somerville/Waltham	-	-	-	-	82	45	4	-	-	-	
Somerville	Overhead Corrective/Emergency	-	-	-	-	926	101	3	16	13	-	
Somerville	Overhead Reliability Improvements	-	-	-	-	139	62	6	-	5	-	
Various	Station Breaker Transformer Failure	-	-	-	-	134	130	5	8	-	-	
Framingham/Walpole	Underground Corrective/Emergency Replacement	-	-	-	-	344	35	4	-	-	-	
Framingham/Walpole	Underground Reliability Improvements	-	-	-	-	1	0	-	-	-	-	
Various	Overhead Corrective/Emergency	-	-	-	-	384	70	7	5	15	-	
Various	Overhead Reliability Improvements	-	-	-	-	787	(143)	1	-	-	-	
Mass Ave	Underground Keep Cost Mass	-	-	-	-	555	30	-	-	(1)	-	
Mass Ave	Keep Cost - Mass Ave	-	-	-	-	79	7	-	-	-	-	
Mass Ave	New Customer - Mass Ave	-	-	-	-	1,530	1,317	754	1,103	177	46	
Mass Ave	Residential Development - Mass Ave	-	-	-	-	11	30	30	-	-	-	
Mass Ave	Temporary Customer- Mass Ave	-	-	-	-	21	(32)	60	-	-	-	
Mass Ave	Volume Sales New Customer - Mass Ave	-	-	-	-	731	342	114	8	1	-	
Mass Ave	Volume Sales Temporary Customer Mass Ave	-	-	-	-	(7)	(2)	24	-	-	-	
Mass Ave	Volume Sales Cable TV Mass Ave	-	-	-	-	-	0	1	-	-	2	
Mass Ave	MASS AVE FSA Station Improvement	-	-	-	-	78	60	1	-	-	-	
Somerville	New Customer Somerville	-	-	-	-	635	497	14	-	-	-	
Somerville	Residential Development Somerville	-	-	-	-	140	177	6	-	-	-	
Somerville	Temporary Customer Somerville	-	-	-	-	(13)	(71)	3	33	-	-	
Somerville	Volume Sales - New Customer Somerville	-	-	-	-	518	177	13	-	-	-	
Somerville	Volume Sales Temporary Customer Somerville	-	-	-	-	(13)	(2)	0	-	-	-	
Somerville	Volume Sales Cable TV Somerville	-	-	-	-	-	5	10	3	-	-	
Somerville	Volume Sales Single Phase Service Underground Somerville	-	-	-	-	-	0	0	-	-	-	
Somerville	Volume Sales Single Phase Service Overhead Somerville	-	-	-	-	-	-	1	-	-	-	
Framingham	New Customer Framingham	-	-	-	-	192	106	21	-	-	-	
Framingham	Residential Development Framingham	-	-	-	-	488	309	67	18	-	-	
Framingham	Temporary Customer Framingham	-	-	-	-	14	5	-	1	-	-	
Framingham	Volume Sales New Customer	-	-	-	-	240	162	10	-	-	-	
Framingham	Residential Customer - Framingham	-	-	-	-	5	-	-	-	-	-	
Framingham	Volume Sales Temporary Customer Framingham	-	-	-	-	-	(1)	-	-	-	-	
Framingham	Underground Services - Framingham	-	-	-	-	-	0	1	-	-	-	
Mass Ave	Street Light Add/Relocate	-	-	-	-	548	85	(11)	-	-	-	
Various	Street Light Modernization	-	-	-	-	233	8	(2)	-	-	-	
Mass Ave	Street Light Removals	-	-	-	-	28	(18)	(33)	1	2	-	
Various	Street light - No Current Replace	-	-	-	-	-	-	2	-	-	-	
Somerville/Waltham	Underground Keep Cost Somerville/Waltham	-	-	-	-	89	10	1	-	-	-	
Framingham/Walpole	Underground Keep Cost Framingham/Waltham	-	-	-	-	10	-	-	-	-	-	
Somerville/Waltham	Overhead Keep Cost Somerville/Waltham	-	-	-	-	150	6	-	-	(8)	-	
Various	Overhead Keep Cost Framingham/Waltham	-	-	-	-	183	19	1	(8)	(9)	-	
Various	Street Light Knock Downs	-	-	-	-	1	-	-	-	-	-	
Mass Ave	C&S Minor System Improvements	-	-	-	-	3,860	2,403	382	74	13	1	
Mass Ave	C&S Minor System Improvements	-	-	-	-	743	826	13	-	-	-	
	Distribution Overheads	-	-	-	-	-	-	-	-	-	-	
	Plant Adjustment	-	-	-	-	-	-	-	(14)	-	-	
	Acts of Public Authority	-	-	-	-	-	-	-	-	-	-	
	System Failures/Replacements	-	-	-	-	-	-	-	-	945	-	
Mass Ave	Underground Network Feeder Replacement	-	-	-	-	-	178	1	-	1	-	

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Mass Ave	4KV Switch Replacement	-	-	-	-	-	597	14	1,096	759	586
	Mass Ave	Underground 4kv Circuit Cable Replacement	-	141	-	-	-	-	-	-	-	-
	Mass Ave	4kv Switch Replacement	-	-	-	-	-	218	-	-	-	-
	Mass Ave	4kV Switch Replacement	-	-	-	-	-	172	4	-	11	-
	Mass Ave	Underground A/C Network Secondary Replacement	-	-	-	-	-	285	-	-	-	-
	Mass Ave	Underground Transformer Failure Replacement	-	-	-	-	-	56	-	-	-	-
	Mass Ave	Underground Minor Reliability Improvements - Mass Ave	-	-	-	-	-	170	61	30	203	1
	Mass Ave	Keep Costs Mass Ave	-	-	-	-	-	375	580	445	347	104
	Mass Ave	Overhead 4KV Equipment Replacement	-	-	-	-	-	65	0	16	-	-
	Mass Ave	Overhead 14KV Equipment Replacement	-	-	-	-	-	32	1	-	-	-
	Mass Ave	Overhead Radial Second Replacement	-	-	-	-	-	24	1	1	-	-
	Mass Ave	Overhead Service Replace - Mass Ave	-	-	-	-	-	20	0	-	-	-
	Mass Ave	Overhead Minor Reliability Improvement	-	-	-	-	52	27	2	-	-	-
	Mass Ave	Overhead Keep Cost Mass Ave	-	-	-	-	-	34	58	56	(18)	(32)
	Waltham	Underground 4KV Cable Replacement	-	-	-	-	-	292	0	-	402	56
	Waltham	Act of Public Authority Waltham	-	-	-	-	-	763	5	12	147	28
	Waltham	Waltham keep Cost	-	-	-	-	-	107	1	60	99	23
	Waltham	Underground Transformer Failure Replacement	-	-	-	-	-	6	-	-	-	-
	Waltham	Overhead Circuit Walkdown Waltham	-	-	-	-	-	43	15	59	162	643
	Somerville	Keep Cost Somerville	-	-	-	-	-	47	127	161	79	71
	Walpole	Walpole Like for Like Replacement	-	-	-	-	-	103	6	351	1,127	978
	Framingham	Framingham Like for Like Replacement	-	-	-	-	-	242	11	506	1,222	1,317
	Somerville	Circuit Upgrades Somerville	-	-	-	-	-	59	2	315	1,518	499
	Waltham	Overhead Service Replacement - Somerville/Waltham	-	-	-	-	-	63	-	-	-	3
	Waltham	Waltham Like for Like Replacement	-	-	-	-	45	80	1	677	1,581	1,334
	Somerville	Overhead Keep Cost Somerville	-	-	-	-	-	59	68	60	35	(18)
	Various	Underground 4kv Circuit Cable Replacement	-	-	-	-	-	26	-	-	192	175
	Framingham	Overhead Circuit Walkdowns Framingham	-	-	-	-	-	81	8	-	57	331
	Various	Underground Radial Second Replace	-	-	-	-	-	7	-	-	-	-
	Various	Underground Transformer Failure Replacement	-	-	-	-	-	17	-	-	-	-
	Various	Underground Minor Reliability Improvements - West	-	-	-	-	-	7	-	2	3	-
	Walpole	Keep Cost Walpole	-	-	-	-	-	12	85	157	50	(46)
	Various	Overhead 4KV Equipment Replacement	-	-	-	-	-	161	19	53	76	-
	Various	Overhead 14KV Equipment Replacement	-	-	-	-	-	375	24	26	28	(13)
	Various	Overhead Radial Second Replacement	-	-	-	-	-	25	10	18	23	-
	Various	Overhead Service Replacement Framingham/Walpole	-	-	-	-	-	13	-	-	-	-
	Various	Overhead Minor Reliability Improvement	-	-	-	-	76	40	-	-	-	-
	Framingham	Keep Cost Framingham	-	-	-	-	-	167	289	152	13	(99)
	Walpole	Overhead Circuit Walkdowns	-	-	-	-	-	-	389	6	30	156
	Framingham	Construct Framingham Minor Improvement Street	-	-	-	-	-	-	264	362	465	365
	Walpole	Construct Walp Minor System Improvement	-	-	-	-	-	-	-	141	411	265
	Waltham	Construct Walt Minor System Improvrments Line of Business Street	-	-	-	-	-	-	432	627	649	376
	Various	Construct Walt Minor Sys Improvements Line of Business Station	-	-	-	-	-	-	-	8	-	-
	Somerville	Capital for Construction Maintenance	-	-	-	-	-	-	30	131	43	-
	Framingham	Maintenance Fram / Walp / Walth Line of Business	-	-	-	-	-	-	194	192	112	-
		Engineering Distribution Street	-	-	-	-	-	-	-	-	-	1,149
	Various	Police / Paving	-	-	-	-	-	5,062	3,789	7,088	9,276	7,242
	Various	Preliminary Auth Trans	-	-	-	-	-	165	103	732	47	7
		BECO Prelim Eng	-	-	-	-	-	-	-	-	1,214	2,563
	Various	Records	-	-	-	-	21	2,193	1,466	1,496	1,872	1,540
	Mass Ave	Upgrade Underground Residential Development	-	-	-	-	64	774	74	2	60	-
	Mass Ave	Convert 4Kv to 13.8 Circuit 323-04 -06	-	-	-	-	-	519	168	25	18	-
	Mass Ave	PAR Convert 430-11&4	-	-	-	-	-	85	0	-	-	-
	Mass Ave	Convert Emmanuel College	-	-	-	-	-	579	745	42	-	-
	Mass Ave	Convert Primary Network Unit 24	-	-	-	-	-	1,916	814	19	4	-
	Mass Ave	Convert Circuit 277-04	-	-	-	-	-	168	240	(3)	-	-
	Mass Ave	Convert Primary Network Unit 25	-	-	-	-	-	1,375	1,705	294	121	-
	Mass Ave	Convert 516-08 & 468-07	-	-	-	-	-	1,459	6	-	-	-
	Mass Ave	Convert 344-02	-	-	-	-	-	225	79	154	5	-
	Mass Ave	Convert Circuit 3603 loop system	-	-	-	-	-	102	60	173	353	1
	Mass Ave	Convert 4Kv 13.8Kv 6004,344-05	-	-	-	-	-	111	302	534	151	-
	Mass Ave	Convert 139-09	-	-	-	-	-	111	83	374	5	-
	Mass Ave	Convert Circuit 277-01	-	-	-	-	-	8	21	493	91	-
	Mass Ave	Retire Station 469, Somerville	-	-	-	-	-	2,920	984	85	14	1

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Mass Ave	Convert 4Kv to 13.8Kv Circuit 4301,4307	-	-	-	-	-	168	105	451	98	-
	Waltham	Station 285	-	-	-	-	-	76	223	724	277	-
	Various	Indus Model Construction	-	-	-	-	-	11	668	870	277	8
	Mass Ave	Mass Ave Like for Like Replacement	-	-	-	-	-	1,433	3,515	5,323	6,517	5,615
	Mass Ave	Overhead Corrective Maintenance - Mass Ave	-	-	-	-	-	121	381	517	484	66
	Mass Ave	Station Corrective Replacement - Mass Ave	-	-	-	-	-	186	1,744	650	52	-
	Mass Ave	Overhead Minor Reliability Improvement - Mass Ave	-	-	-	-	-	63	85	108	238	22
	Mass Ave	Field Service Area1 System Capacity Improvements	-	-	-	-	-	58	66	162	991	12
	Somerville	Somerville Like for Like Replacement	-	-	-	-	-	392	1,310	2,234	1,392	1,836
	Somerville	Overhead Corrective Maintenance - Somerville	-	-	-	-	-	416	599	680	538	63
	Various	Station Corrective Replacement - Somerville	-	-	-	-	-	67	32	600	(22)	85
	Somerville	Overhead Minor Reliability Improvements Somerville Ops Distribution	-	-	-	-	-	4	62	16	126	-
	Various	Underground Corrective Replacement - West	-	-	-	-	-	71	767	339	101	2
	Various	Overhead Corrective Replacement - West	-	-	-	-	-	312	1,113	737	85	39
	Various	Station Corrective Replacement - West	-	-	-	-	-	515	965	82	(937)	1
	Various	Overhead Minor Reliability Improvements - West	-	-	-	-	-	47	32	336	222	1
	Various	Install New Transformer Sta. 470	-	-	-	-	-	-	1,122	1,582	48	-
	Framingham	Rebuild Underground Residential Development-Edgewater Apts,Worc.Rd	-	-	-	-	-	-	249	133	181	-
	Walpole	Extend Circuit 148-H3 Westwood	-	-	-	-	-	-	439	163	54	2
	Mass Ave	Relieve 548-92H	-	-	-	-	-	-	321	-	-	-
	Mass Ave	Increase Capacity East	-	-	-	-	-	-	-	383	28	8
	Waltham	Convert Step-down Area	-	-	-	-	-	-	-	306	733	-
	Mass Ave	MWRA C-H Pumping Station, Brighton	-	-	-	-	-	-	(75)	-	63	-
	Mass Ave	New Balance -- Guest St, Brighton	-	-	-	-	-	-	54	34	10	-
	Mass Ave	BU New Station 508	-	-	-	-	5	97	294	78	28	36
	Mass Ave	Bland Plastic	-	-	-	-	1	368	28	95	6	-
	Mass Ave	Landmark Center	-	-	-	-	6	152	186	-	-	-
	Mass Ave	Laconia Condo	-	-	-	-	10	114	-	-	-	-
	Waltham	Establish Secondary Network Vault 57	-	-	-	-	-	(33)	2	1	-	1
	Framingham	Greenways Assisted Living	-	-	-	-	-	122	14	-	-	-
	Framingham	Framingham Triangle	-	-	-	-	-	18	14	2	-	-
	Walpole	EMC Corp Hopkinton	-	-	-	-	-	(9)	74	-	-	-
	Framingham	Metro West Hospital	-	-	-	-	-	0	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 564	-	-	-	-	-	20	0	-	-	-
	Mass Ave	Establish Tertiary Network Vault 6217 A&B	-	-	-	-	-	37	3	-	-	-
	Mass Ave	Mission Main Phase 1	-	-	-	-	-	-	31	13	-	-
	Mass Ave	Establish Secondary Network Vault 509	-	-	-	-	-	4	-	-	-	-
	Mass Ave	Establish Secondary Network Vault 57	-	-	-	-	-	2	1	-	-	-
	Mass Ave	BV Development / Underground Guest St.	-	-	-	-	-	2	(96)	26	-	-
	Waltham	Riverside Center	-	-	-	-	-	0	-	-	-	-
	Mass Ave	Butler St Relocation - MBTA	-	-	-	-	-	-	(82)	(146)	1	-
	Somerville	Partners Health	-	-	-	-	-	-	-	-	-	-
	Mass Ave	63-67 Endicott St Boston	-	-	-	-	-	203	164	-	-	-
	Mass Ave	Markley Stearns 1 Summer St, Boston	-	-	-	-	-	203	358	9	4	20
	Mass Ave	MDA/Milennium Place 601 Wash St Boston	-	-	-	-	-	-	440	39	(12)	-
	Mass Ave	Zade 112 Canal St, Boston	-	-	-	-	-	-	206	97	194	30
	Walpole	Walpole High School	-	-	-	-	-	22	107	64	16	-
	Framingham	EMC 117 South St, Hopkinton	-	-	-	-	-	17	394	67	-	-
	Waltham	Customer Special Waltham	-	-	-	-	-	-	-	56	87	-
	Various	Indus Model New Customer	-	-	-	-	-	87	8	280	78	2
	Various	Indus Model Temporary Customer	-	-	-	-	-	1	2	-	-	-
	Various	Indus Model Remove Service	-	-	-	-	-	0	2	-	-	-
	Various	Indus Model Cable TV	-	-	-	-	-	-	4	4	-	-
	Various	Indus Model Overhead Services/Underground Services	-	-	-	-	-	-	-	1	-	-
	Mass Ave	Indus Model Customer Spec Authorization	-	-	-	-	-	-	-	78	132	14
		4Kv Oil Switch Replacement	-	-	-	-	-	-	-	-	-	289
	Various	Con Electric Distribution Asset Strategy	-	-	-	-	-	-	-	119	465	-
		Construct Phase 2 - 122 Line Rebuild	-	-	-	-	-	-	-	33	-	-
		Station Transformer Corrective Replacement Station 59	-	-	-	-	-	-	-	6	1	-
	Mass Ave	Station Breaker/Transformer - Mass Ave	-	-	-	-	-	119	4	-	-	-
	Various	Station Breaker/Transformer - Somerville/Waltham	-	-	-	-	-	-	16	-	-	-
	Various	Station Breaker/Transformer Fra/WP	-	-	-	-	-	210	2	-	-	-
	Mass Ave	Street Lighting - Mass Ave	-	-	-	-	-	-	(2)	16	14	31
		New Customer - Mass Ave	-	-	-	-	3	1,517	6,029	7,195	11,064	8,680

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Mass Ave	Residential Development - Mass Ave	-	-	-	-	-	26	227	156	76	-	
Mass Ave	New Temporary Service - Mass Ave	-	-	-	-	-	64	148	339	389	10	
Mass Ave	New Customer Mass Ave	-	-	-	-	3	813	548	130	116	9	
	New Customer	-	-	-	-	-	-	-	-	30	-	
Mass Ave	Residential Customer Mass Ave	-	-	-	-	36	61	104	118	111	20	
Mass Ave	New Customer Mass Ave	-	-	-	-	-	3	1	3	-	-	
Mass Ave	CATV Mass Ave	-	-	-	-	3	53	27	19	21	4	
Mass Ave	Overhead & Underground Services - Mass Ave	-	-	-	-	59	43	58	34	296	20	
Mass Ave	Underground Services - Mass Ave	-	-	-	-	22	12	13	-	-	-	
Waltham	New Customer Waltham	-	-	-	-	-	-	761	2,046	1,780	2,274	
Waltham	Residential Development - Waltham	-	-	-	-	-	-	169	126	145	4	
Waltham	New Temporary Service Waltham	-	-	-	-	-	-	85	11	11	3	
Waltham	Residential Customer Waltham	-	-	-	-	-	-	72	62	111	2	
Waltham	CATV Waltham	-	-	-	-	-	-	16	7	1	-	
Waltham	Overhead & Underground Services - Waltham	-	-	-	-	-	-	63	54	47	10	
Waltham	Street Light Waltham Customer Operations	-	-	-	-	-	-	1	1	2	3	
Mass Ave	Station Improvement - Mass Ave	-	-	-	-	-	7	-	-	-	-	
Somerville	New Customer Somerville	-	-	-	-	1	911	3,787	1,221	1,349	1,341	
Somerville	Residential Development Somerville	-	-	-	-	0	214	41	136	75	5	
Somerville	New Temporary Service Somerville	-	-	-	-	-	67	27	36	6	-	
Somerville	New Customer Somerville	-	-	-	-	19	543	1	20	8	3	
Somerville	Residential Customer Somerville	-	-	-	-	43	74	42	17	30	2	
Somerville	New Temporary Service Somerville	-	-	-	-	-	5	0	-	-	-	
Somerville	CATV Somerville	-	-	-	-	42	44	10	10	16	-	
Somerville	Overhead Services/Underground Service Somerville	-	-	-	-	41	65	55	25	23	3	
Somerville	Underground Service Somerville	-	-	-	-	39	36	-	-	-	-	
Walpole	New Customer Walpole	-	-	-	-	-	-	401	682	773	1,074	
Walpole	Residential Development Walpole	-	-	-	-	-	-	4	187	152	5	
Walpole	New Temporary Service Walpole	-	-	-	-	-	-	11	16	3	-	
Walpole	Residential Customer Walpole	-	-	-	-	-	-	29	32	18	1	
Walpole	CATV Walpole	-	-	-	-	-	-	19	1	-	2	
Walpole	Overhead Services/Underground Service Walpole	-	-	-	-	-	-	56	80	61	11	
Walpole	Street Light Walpole Customer Operations	-	-	-	-	-	-	3	3	7	23	
Framingham	New Customer Framingham	-	-	-	-	15	555	744	983	792	715	
Framingham	Residential Development Framingham	-	-	-	-	3	158	780	448	283	40	
Framingham	New Temporary Service Framingham	-	-	-	-	-	2	31	27	10	4	
Framingham	New Customer Framingham	-	-	-	-	1	202	185	8	-	-	
Framingham	Residential Customer Framingham	-	-	-	-	15	27	20	16	38	7	
Framingham	New Temporary Service Framingham	-	-	-	-	-	15	1	-	-	-	
Framingham	CATV Framingham	-	-	-	-	3	32	46	1	2	-	
Framingham	Overhead Service Framingham	-	-	-	-	30	68	97	105	72	6	
Framingham	Underground Service Framingham	-	-	-	-	88	86	2	-	-	-	
Framingham	Street Lights Framingham COPS	-	-	-	-	-	-	0	-	-	4	
Somerville	Street Lights Somerville COP	-	-	-	-	-	-	6	3	-	11	
	Street Light Install & Relocate	-	-	-	-	8	178	558	1,116	585	36	
Various	Modernizations	-	-	-	-	4	39	(2)	-	-	-	
Mass Ave	Removals	-	-	-	-	5	3	(2)	-	-	-	
Various	No Current Minor St Light Replace	-	-	-	-	539	318	24	-	-	-	
Various	System Planning BECo	-	-	-	-	3,619	3,230	1,991	1,750	292	237	
Mass Ave	Minor Capital Improvements Mass Ave	-	-	-	-	15	2,818	1,174	7,900	1,377	1,149	
Various	Minor Capital Improvements Stations BECo	-	-	-	-	-	172	464	873	5,066	3,039	
Mass Ave	Construction Mass. Ave. Act of Public Authority	-	-	-	-	0	494	850	1,249	545	585	
Mass Ave	Split Fiber Main Replacement	-	-	-	-	11	2,384	3,356	6,932	14,661	4,226	
Mass Ave	Circuit Upgrades Mass Ave	-	-	-	-	1	860	257	48	53	42	
Somerville	Minor System Improvement Somerville	-	-	-	-	-	747	391	21	762	500	
Walpole	Walpole Act of Public Authority	-	-	-	-	-	-	11	83	109	103	
Various	Technical Support various locations	-	-	-	-	5,426	6,253	9,061	9,139	13,154	17,799	
Somerville	Zerolife - Various	-	-	-	-	-	-	-	1	-	-	
	BECo Facilities Construction	-	-	-	-	-	-	-	479	-	-	
	Atlantic Ave	-	-	-	-	-	-	-	274	-	-	
	Various Projects	-	-	-	-	-	-	-	-	-	-	
	Various Projects	-	-	-	-	-	-	361	-	-	-	
	Various Projects	-	-	(381)	67	65	(1,771)	(680)	1,258	-	-	
	Various Projects	-	-	-	-	-	-	-	(467)	1,098	(43)	

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
	Install Conduit Huntington Avenue	-	-	-	-	-	-	-	-	369	154	
	Cambridge Trust Co, Cambridge St, Boston	-	-	-	-	-	-	-	-	55	-	
	New Customer 111 Huntington Ave.	-	-	-	-	-	-	-	-	-	-	
	Michelangelo St, Secondary Network Vault 496	-	-	-	-	-	-	-	-	46	15	
	EMC Engineering Building Hopkinton	-	-	-	-	-	-	-	-	86	-	
	131 Dartmouth St, Tertiary Network Vault 6218	-	-	-	-	-	-	-	-	353	-	
	Overhead to Underground Canton Center	-	-	-	-	-	-	-	-	19	954	
	Overhead to Underground - Westwood Center	-	-	-	-	-	-	-	-	525	130	
	Overhead to Underground Natick Center	-	-	-	-	-	-	-	-	166	39	
	Dedicated Line to Logan Airport	-	-	-	-	-	-	-	-	169	12	
	Install Inoperative Relays at Stations	-	-	-	-	-	-	-	-	1,646	108	
	Purchase 115kV/14kV Mobile Transformer	-	-	-	-	-	-	-	-	871	451	
	Retire PNU28 20N28, 23N28X/Y, 23N3	-	-	-	-	-	-	-	-	50	-	
	4kV West Roxbury 284-08	-	-	-	-	-	-	-	-	(133)	-	
	Increase Capacity W. Roxbury / Brookline	-	-	-	-	-	-	-	-	2,028	2	
	Reconfigure 304-77H	-	-	-	-	-	-	-	-	1,135	(93)	
	REIT Two Line Station	-	-	-	-	-	-	-	-	258	505	
	Internet 30 Innerbelt Road	-	-	-	-	-	-	-	-	2	-	
	Rebuild Underground Real Estate Development - Chapel Hill	-	-	-	-	-	-	-	-	176	-	
	Rebuild Underground Real Estate Development -Lord Chesterfield	-	-	-	-	-	-	-	-	47	-	
	Underground Real Estate Development Rebuild Nagog Woods	-	-	-	-	-	-	-	-	38	-	
	System Spare Transformer	-	-	-	-	-	-	-	-	1,063	2	
	Relocate Conduit, MBTA Wash. St	-	-	-	-	-	-	-	-	726	55	
	Establish Tertiary Network Vault 6228 @ 10 Boylston St	-	-	-	-	-	-	-	-	241	11	
	Increase Capacity @ Station # 148	-	-	-	-	-	-	-	-	1,848	83	
	Increase Capacity Trapelo Rd #450	-	-	-	-	-	-	-	-	108	-	
	Install 3rd Transformer Station #450	-	-	-	-	-	-	-	-	2,023	72	
	Establish Secondary Network Vault 566 Chauncy St Boston	-	-	-	-	-	-	-	-	67	142	
	OH Reconductor Circuit Walpole	-	-	-	-	-	-	-	-	7	-	
	Provide New Supply Guitierrez Constr	-	-	-	-	-	-	-	-	122	3	
	Increase Capacity Station 148 Street Work	-	-	-	-	-	-	-	-	256	916	
	Purchase of Tools Field Support	-	-	-	-	-	-	-	-	115	63	
	Cathodic Protection	-	-	-	-	-	-	-	-	7	4	
	Relieve Sudbury Station #342	-	-	-	-	-	-	-	-	244	-	
	Relieve Woburn Station #375	-	-	-	-	-	-	-	-	43	-	
	Relieve Natick Line Group	-	-	-	-	-	-	-	-	384	(2)	
	Relieve Saxonville Line Group	-	-	-	-	-	-	-	-	143	-	
	Improve Reliability Circuit 455-H1	-	-	-	-	-	-	-	-	167	136	
	Reconfigure Circuit 146-H2	-	-	-	-	-	-	-	-	146	-	
	Relieve Circuit 148-H3	-	-	-	-	-	-	-	-	203	1	
	Improve Reliability of Circuit 23-H2	-	-	-	-	-	-	-	-	189	49	
	Replace Underground Real Estate Development Cable in Indian Hill	-	-	-	-	-	-	-	-	143	122	
	4Kv Modernization Project-13N29	-	-	-	-	-	-	-	-	120	144	
	4Kv Modernization Project-14N29	-	-	-	-	-	-	-	-	145	128	
	4Kv Modernization-17N29	-	-	-	-	-	-	-	-	92	108	
	Replace Underground Real Estate Development Amberwood Drive	-	-	-	-	-	-	-	-	188	238	
	BU New Indoor Track	-	-	-	-	-	-	-	-	153	-	
	Convert section 17N33 Somerville	-	-	-	-	-	-	-	-	670	507	
	Convert section 26N33 Somerville	-	-	-	-	-	-	-	-	82	294	
	Reconductor 250-1N81H	-	-	-	-	-	-	-	-	235	94	
	Replace Underground Real Estate Development Cable on Oak Park Drive	-	-	-	-	-	-	-	-	42	-	
	Retire and Relocate Transformer - Station 106	-	-	-	-	-	-	-	-	-	463	
	Relocate Overhead Lines to Underground	-	-	-	-	-	-	-	-	116	-	
	Increase Capacity Secondary Network Vault 46 Newbury St	-	-	-	-	-	-	-	-	251	-	
	Establish Secondary Network Vault 233 Newbury St	-	-	-	-	-	-	-	-	346	-	
	Breaker Replacements Stations #329 & 250	-	-	-	-	-	-	-	-	10	425	
	Relieve Chelsea-East Boston Region	-	-	-	-	-	-	-	-	593	107	
	Convert 4Kv Underground to 13.8Kv Circuit 293-03	-	-	-	-	-	-	-	-	160	-	
	4Kv South Boston Circuit 139-08	-	-	-	-	-	-	-	-	543	60	
	Convert 4Kv Underground to 13.8Kv Circuit 143-05	-	-	-	-	-	-	-	-	483	109	
	Transfer SO End Network #492-#106	-	-	-	-	-	-	-	-	116	(3)	
	Convert 4Kv Underground Loop Circuit 396-08	-	-	-	-	-	-	-	-	363	176	
	Relieve Boston Medical Line Group	-	-	-	-	-	-	-	-	222	82	
	Reconductor Circuit 106-H4	-	-	-	-	-	-	-	-	12	-	

	Boston Edison										
	2003 ASQR Capital Spending										
	(Dollars in Thousands)										

	Boston Edison											
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Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
	Relieve circuit 467-H1	-	-	-	-	-	-	-	-	-	-	77
	Relief Circuits in the Town of Millis	-	-	-	-	-	-	-	-	-	-	207
	Relieve Circuit 13-10	-	-	-	-	-	-	-	-	-	-	25
	Relieve circuit 13N14	-	-	-	-	-	-	-	-	-	-	2
	Install new Elastimold switch circuit 36-09	-	-	-	-	-	-	-	-	-	-	39
	Relieve circuit 467-H8	-	-	-	-	-	-	-	-	-	-	39
	Reconductor 36-20	-	-	-	-	-	-	-	-	-	-	133
	Relieve circuit 487-1376H1	-	-	-	-	-	-	-	-	-	-	37
	Relieve circuit 211-04	-	-	-	-	-	-	-	-	-	-	78
	Relieve circuit 250-1N81H1	-	-	-	-	-	-	-	-	-	-	76
	Relieve circuit 450-H6 - Phase 1	-	-	-	-	-	-	-	-	-	-	66
	Reconductor Circuit 240-H3	-	-	-	-	-	-	-	-	-	-	37
	Relieve Circuit 20-02 and Improve Voltage Conditions	-	-	-	-	-	-	-	-	-	-	29
	Relieve Circuit 284-07	-	-	-	-	-	-	-	-	-	-	88
	Relieve circuit 34-04	-	-	-	-	-	-	-	-	-	-	91
	Relieve circuit 443-07 and 443-02	-	-	-	-	-	-	-	-	-	-	27
	Install a total of 70 MVar of distribution capacitors: miscellaneous stations	-	-	-	-	-	-	-	-	-	-	201
	Upgrade North Woburn Station # 375 Install spare on site	-	-	-	-	-	-	-	-	-	-	2,944
	Establish New Overhead Circuit 342-H6	-	-	-	-	-	-	-	-	-	-	467
	Install nitrogen generators or central nitrogen supply	-	-	-	-	-	-	-	-	-	-	131
	Upgrade protection at LCUs with remote relaying (from the source station) and 4kV	-	-	-	-	-	-	-	-	-	-	129
	Relieve Boston University Medical Line Group	-	-	-	-	-	-	-	-	-	-	620
	Reconductor sections of DSS line 329-1N51H	-	-	-	-	-	-	-	-	-	-	101
	Reconductor sections of DSS line 329-1N40H	-	-	-	-	-	-	-	-	-	-	549
	Relieve DSS line 250-1N33H	-	-	-	-	-	-	-	-	-	-	117
	Relieve Jamaica Plain Line Group	-	-	-	-	-	-	-	-	-	-	177
	Relieve DSS line 250-1N90H	-	-	-	-	-	-	-	-	-	-	362
	Relieve the Charlestown Line Group	-	-	-	-	-	-	-	-	-	-	302
	Relieve DSS line 17-1355 - Phase 2	-	-	-	-	-	-	-	-	-	-	73
	Reconductor DSS line 548-92H	-	-	-	-	-	-	-	-	-	-	465
	Relieve the Raytheon Line Group	-	-	-	-	-	-	-	-	-	-	846
	Relieve the Waltham-2 Line Group	-	-	-	-	-	-	-	-	-	-	265
	Relieve Thermal Loading at Station 496	-	-	-	-	-	-	-	-	-	-	313
	Bridge Crossing DSS lines 506-140H, 233-90H, 36-51	-	-	-	-	-	-	-	-	-	-	36
	Distribution Automation Mass Ave	-	-	-	-	-	-	-	-	-	-	77
	Partners Health Care Fruit St. @#55 Boston	-	-	-	-	-	-	-	-	-	-	559
	Improve Voltage Conditions on Dedham Circuits	-	-	-	-	-	-	-	-	-	-	174
	North Washington St. Bridge Conduit	-	-	-	-	-	-	-	-	-	-	129
	Improve Reliability at Summit	-	-	-	-	-	-	-	-	-	-	28
	Establish Secondary Network Vault 597, Fleet St., Boston Street	-	-	-	-	-	-	-	-	-	-	397
	Relieve 13.8kV/4kV Step-down Transformer at Station 26	-	-	-	-	-	-	-	-	-	-	7
	Circuit 211-06 Load Relief	-	-	-	-	-	-	-	-	-	-	94
	Improve Regulation of Circuit 148-H1	-	-	-	-	-	-	-	-	-	-	79
	System Improvements for Conduit to Convention Center	-	-	-	-	-	-	-	-	-	-	2,300
	Relieve Stoneham Line Group N-1	-	-	-	-	-	-	-	-	-	-	14
	Relieve Circuit 355-05	-	-	-	-	-	-	-	-	-	-	40
	Relieve Circuit 23-05	-	-	-	-	-	-	-	-	-	-	5
	Relieve Circuit 24-08	-	-	-	-	-	-	-	-	-	-	10
	Establish 329-H2/H5 Tie	-	-	-	-	-	-	-	-	-	-	0
	Distribution Infrastructure Station 106	-	-	-	-	-	-	-	-	-	-	167
	Sudbury Station 342 Replace a Transformer	-	-	-	-	-	-	-	-	-	-	1,035
	Install New Transformer Station 375 Street Work	-	-	-	-	-	-	-	-	-	-	849
	Reconductor Network Feeder 71-1N31	-	-	-	-	-	-	-	-	-	-	103
	Reconductor Network Feeder 492-1N32	-	-	-	-	-	-	-	-	-	-	125
	Increase 15Kv Dist Capacity, Dorchester	-	-	-	-	-	-	-	-	-	-	243
	Distribution Automation Somerville	-	-	-	-	-	-	-	-	-	-	256
	Distribution Automation Waltham	-	-	-	-	-	-	-	-	-	-	641
	Distribution Automation Walpole	-	-	-	-	-	-	-	-	-	-	504
	Distribution Automation Framingham	-	-	-	-	-	-	-	-	-	-	600
	Distribution Automation Computer Hardware North	-	-	-	-	-	-	-	-	-	-	44
	Colburn Street Substation (Distribution Street) Child	-	-	-	-	-	-	-	-	-	-	727
	Colburn Street Substation (Station) Child	-	-	-	-	-	-	-	-	-	-	442
	Establish New Network Feeder 53-1N74E	-	-	-	-	-	-	-	-	-	-	96
	MBTA 500 Arborway Boston	-	-	-	-	-	-	-	-	-	-	111

		Boston Edison										
		2003 ASQR Capital Spending										
		(Dollars in Thousands)										
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
		BHA - Lenox St, Roxbury	-	-	-	-	-	-	-	-	-	116
		Academy Homes II - Washington St, Roxbury	-	-	-	-	-	-	-	-	-	194
		One Brigham Circle - 1636 Tremont St, Roxbury	-	-	-	-	-	-	-	-	-	86
		Nazing Apartments - Nazing Ct, Roxbury	-	-	-	-	-	-	-	-	-	77
		Merck Company 33 Louis Pasteur Ave, Roxbury	-	-	-	-	-	-	-	-	-	88
		Total Distribution	\$ 67,609	\$ 66,575	\$ 81,647	\$ 70,691	\$ 66,167	\$ 66,196	\$ 66,783	\$ 92,632	\$ 134,373	\$ 127,229
	Transmission:											
	Various	Install Shunt Reactor at Woburn & K-Street	-	-	-	-	-	-	35	3,116	73	140
	Various	Station 446 Sound Reduction - Transformers 345 A&B	-	-	-	-	-	-	-	107	32	8,304
	Various	ANP Station 446 Upgrade / Bellingham	-	-	-	-	-	-	27	808	-	-
	Various	Sithe Edgar Interconnection	-	-	-	-	-	-	-	11	-	329
	Various	Enhance Downtown Relay	-	-	-	-	-	-	-	140	802	-
	Various	Reconductor Line 282-507 Station 342 Sudbury to Station 282 Waltham	-	-	-	-	-	-	-	1,085	772	(1)
	Various	Reconductor Line 282-507 Station 342 Sudbury to Station 282 Waltham	-	-	-	-	-	-	-	68	201	1
	Various	Station 456 Relay Upgrade	-	-	-	-	-	-	-	126	-	71
	Various	Engineering Special Blackstone #1 Generator	-	-	-	-	-	-	-	563	-	-
	Various	Replace Autotransformer at Framingham Station Part 2	-	-	-	-	-	-	-	170	3,957	(115)
	Various	Replace Autotransformer at Walpole Station	-	-	-	-	-	-	-	30	2,674	-
	Various	Remote Thermal Units Upgrade Stations 446 - Medway, 211 - Woburn	-	-	-	-	-	-	-	117	-	-
	Various	Static Wire Work, L320-507 - Waltham & Lexington	-	-	-	-	-	-	-	209	2	-
	Various	Structure Replacement, 115 kV line - R/W 8-3 - Lexington & Burlington	-	-	-	-	-	-	-	173	62	-
		PG & E Lake Road Interconnection	-	-	-	-	-	-	-	-	-	605
	Various	ANP Blackstone 446 Worcester	-	-	-	-	-	-	-	5,077	-	-
	Various	Replace Transformer 230A	-	-	-	-	-	-	-	67	2,611	-
	Various	Install Phase Angle Regulating Transformer 110F - Station 282 Waltham	-	-	-	-	-	-	-	14	710	2
	Various	Trans - Develop Station	-	-	-	-	-	-	0	-	-	-
	Various	2ND Medway - Millis 345-STA	-	-	-	-	-	-	-	-	-	-
	Various	115kv Station - Andrew Sq	1,241	1	-	-	-	-	-	-	-	-
	Various	Electric Transmission	-	(1)	-	-	-	-	-	-	-	-
	Various	Replace 115KV BK St	(1)	-	-	-	3	-	-	-	-	-
	Various	Rebuild 240-507/8	-	135	-	2,239	(2)	6	-	-	-	-
	Various	Medway-Framingham 115KV Tran	-	-	-	85	0	(61)	-	-	-	-
	Various	Medway-Framingham 115KV Tran	336	450	-	-	-	-	-	-	-	-
	Various	Spare Autotransformer	-	3	-	-	-	-	-	-	-	-
	Various	Retire Obsolete Equipment - Edgar Station 75	-	21	585	46	100	0	-	-	-	-
	Various	Replace Statistics SO TWR	(18)	-	-	-	-	-	-	-	-	-
	Various	Enhance 115K Reliability Part 1	86	13	-	-	-	-	-	-	-	-
	Various	Reinforce Line 240-507&8 Transmission	65	167	-	-	-	-	-	-	-	-
		Reinforce Line 240-507&8 Station	37	-	3	-	-	-	-	-	-	-
		Station 150 Replace 115K Dis	(10)	10	-	-	-	-	-	-	-	-
	Various	115KV Supply Concord	17	(25)	-	-	-	-	-	-	-	-
	Various	Upgrade Lines 201-501	-	-	-	1	(1)	-	-	-	-	-
	Various	Install System Transmission	-	-	-	-	-	-	-	-	-	-
		Install Backflow Prevention	1	-	2	-	-	(1)	-	-	-	-
	Various	Trans Sec & Tie Bus	133	-	-	-	-	-	-	-	-	-
	Various	Various Station Replace HCR Relay	-	12	97	10	3	-	-	-	-	-
	Various	Install Pothead	10	152	-	-	-	-	-	-	-	-
	Framingham	Replace PLC W/ FOC	128	356	-	735	292	13	-	-	-	-
	Various	Install Transformer Reactors	-	32	-	(255)	4	0	-	-	-	-
	Various	Auto Transformer	-	2,204	-	15	-	-	-	-	-	-
	Various	Replace 115KV Line HOB	-	105	-	209	0	-	-	-	-	-
	Various	Station 478 Pru FOC	-	23	-	16	6	-	-	-	-	-
	Various	Spare Autotransformer	-	1,889	-	5	-	-	-	-	-	-
	Various	Station 126 New 115.14K	-	130	-	211	2,734	28	-	-	-	-
	Various	On Line monitoring	-	-	-	93	100	-	-	-	-	-
	Various	GSU Dissolved Gas	-	-	-	0	-	-	-	-	-	-
	Various	Transmission System Line Work	-	-	-	0	-	-	-	-	-	-
	Various	Implement RCM (T)	-	-	-	19	-	-	-	-	-	-
		Station 274 Replace Cable	-	-	-	25	-	-	-	-	-	-
		Milford Trans 479 RE	-	-	205	4	-	-	-	-	-	-
	Various	Milford Trans 479 / Station Work	-	-	-	289	2,009	87	2	(1)	-	-

		Boston Edison										
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	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Various	Station 385 - Capacitor Bank 115		-	-	-	249	40	-	-	-	-	-
Various	Station 509 - Replace Autotransformer		-	-	-	101	2,299	130	-	-	-	-
Various	Enhance 115kv Relay		-	-	-	1,069	(18)	-	-	-	-	-
Various	NEPOOL Comm Project		-	-	-	158	12	-	-	-	-	-
Various	Transmission System Line Work		-	-	-	250	2	-	-	-	-	-
Various	Transmission System Station Work		-	-	-	56	47	5	-	-	-	-
Various	Cust Div Buildings		-	-	-	102	1	0	14	-	-	-
Various	Station 240 Replace OCB 3		-	-	-	169	33	-	-	-	-	-
Various	Backup to Quincy		-	-	-	22	19	1	-	-	-	-
Various	Replace Relays Station 514T		-	-	-	57	75	2	-	-	-	-
Various	Cathodic Protection L#292-522		-	-	-	1	99	3	-	-	-	-
Various	Replace Breakers		-	-	-	-	1,546	346	16	(2)	(1)	73
Various	Replace LDAR Relay		-	-	-	-	142	0	-	-	-	-
Various	Station 280 Monitoring		-	-	-	-	126	3	12	-	-	-
Various	Station 250 Monitoring		-	-	-	-	60	60	-	-	-	-
Various	Digital Transient Recorder		-	-	-	-	124	141	-	-	-	-
Various	Install Oil Containment		-	-	-	-	300	90	(10)	-	11	400
Various	Upgrade System Monitoring		-	-	-	-	82	20	-	-	-	-
Various	Enhance 115kv Relay		-	-	-	-	1,543	330	1	-	-	-
Various	Station 509 Replace 345B		-	-	-	-	-	2,286	36	-	-	-
Various	Replace Breaker 102 - Station 446		-	-	-	-	5	1	0	454	-	-
Various	Relaying Station		-	-	-	-	1,371	1,245	159	31	(19)	-
Various	Transmission System Line Work		-	-	-	-	139	7	-	-	-	-
Various	Transmission System Station Work		-	-	-	-	128	51	-	-	-	-
Various	Preliminary Authorization - Transmission		-	-	-	-	25	176	91	-	-	-
Various	Edgar Station		-	-	-	-	-	28	4	-	-	-
Various	Station Breaker Transformer		-	-	-	-	20	3	3	-	-	-
	Transmission Overheads		-	-	-	-	-	-	-	-	-	-
Various	Station 211 250		-	-	-	-	-	2,489	487	44	3	-
Various	2nd Mystic to King		-	-	-	-	-	31	3,611	(287)	1,549	-
Various	Station 514 TR 345B		-	-	-	-	-	1,313	4,756	126	-	-
Various	New 345kv Line 324		-	-	-	-	-	235	4,951	317	(1,553)	-
Various	115KV Shunt Reactor		-	-	-	-	-	13	1,383	62	2	4
Various	ANP-Breakers at 446		-	-	-	-	-	104	833	246	(7)	-
Various	ANP-Reconductor Line 336		-	-	-	-	-	54	181	161	-	-
Various	ANP Reconductor 336 & New Tap		-	-	-	-	-	1,308	3,650	(46)	(32)	-
Various	NEP 115kv Backup		-	-	-	-	-	2,043	886	318	-	-
Various	Upgrade 240-510, Station 110, 148		-	-	-	-	-	1	204	147	326	-
Various	New 345kv Line 324		-	-	-	-	-	4	1,464	32	-	-
Various	NEP 115kv Backup		-	-	-	-	-	16	862	-	-	-
Various	Upgrade 240-510, Lines Station 240 to 1		-	-	-	-	-	9	963	2,673	(129)	-
Various	Upgrade 148-522, Station 447 to 148		-	-	-	-	-	169	1,208	942	1	-
Various	Upgrade Line 148-522, Sta. Worl		-	-	-	-	-	-	872	53	24	-
Various	Sithe Mystic Interconnection- Lines		-	-	-	-	-	-	0	3	-	(2)
Various	Sithe Mystic Interconnection - Station		-	-	-	-	-	-	1	420	-	12
Various	Interconnection Agreement Generation		-	-	-	-	-	-	3	-	-	-
Various	Transmission Line LOB		-	-	-	-	-	84	393	265	770	2
Various	Transmission Station LOB		-	-	-	-	-	272	84	173	404	247
	Engineering Transmission Line		-	-	-	-	-	-	-	-	-	567
Various	Transmission Lines		-	-	-	-	-	-	-	13	-	-
	Sherborn Station Breaker Replacement		-	-	-	-	-	-	-	-	175	-
	Upgrade 342-507 Line		-	-	-	-	-	-	-	-	40	18,899
	Upgrade 240-601 Line		-	-	-	-	-	-	-	-	218	-
	Upgrade Line 433-507		-	-	-	-	-	-	-	-	2	8
	Upgrade Line 282-602		-	-	-	-	-	-	-	-	649	(143)
	Upgrade Relays Line 319		-	-	-	-	-	-	-	-	110	196
	Woburn Industrialplex		-	-	-	-	-	-	-	-	-	333
	DTR Station #329		-	-	-	-	-	-	-	-	108	-
	Station 110 Replace Circuit Switches 115kv		-	-	-	-	-	-	-	-	194	4,561
	Relocate Lines 250-516 & 517 MBTA		-	-	-	-	-	-	-	-	-	28
	Upgrade 4 - 345 kV circuit breakers at Walpole Station #447		-	-	-	-	-	-	-	-	-	-
	Dewar-Quincy Load Transfer		-	-	-	-	-	-	-	-	-	179
	Upgrade 342, 433 breakers		-	-	-	-	-	-	-	-	-	1,510
Woburn	Replace ATB circuit breakers due to wear, tear and obsolescence at Station 211		-	-	-	-	-	-	-	-	-	1,521

	Boston Edison											
	2003 ASQR Capital Spending											
	(Dollars in Thousands)											
	Service Area	DESC	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	Upgrade 385-510/511 (Kingston St-High St-K Street 115 kV lines)		-	-	-	-	-	-	-	-	-	559
	Various replace 115kV OCB		-	-	-	-	-	-	-	-	-	4
	12 disconnect switches and Installation		-	-	-	-	-	-	-	-	-	122
	One 345 KV breakers (System Spares)		-	-	-	-	-	-	-	-	-	58
	4 115 KV circuit switchers		-	-	-	-	-	-	-	-	-	17
	Purchase 345Kv Breakers		-	-	-	-	-	-	-	-	-	54
	Sithe Edgar Interconnection		-	-	-	-	-	-	-	-	8,904	-
	Mirant Kendall		-	-	-	-	-	-	-	-	1,158	21
	Sithe Mystic Interconnection		-	-	-	-	-	-	-	-	8,226	-
	Sithe Mystic Interconnection		-	-	-	-	-	-	-	-	12,428	-
	Total Transmission		\$ 2,025	\$ 5,677	\$ 892	\$ 5,984	\$ 13,468	\$ 13,147	\$ 27,180	\$ 18,025	\$ 45,457	\$ 38,566
	Meters		\$ 4,785	\$ 4,480	\$ 521	\$ 4,414	\$ 1,325	\$ 10,871	\$ 1,828	\$ 2,172	\$ 6,364	\$ 6,842
	Overheads		\$ 30,455	\$ 28,723	\$ 10,821	\$ 10,248	\$ 11,945	\$ 16,118	\$ 12,595	\$ 19,427	\$ 30,196	\$ 28,378
	Total Capital Spending		\$ 104,874	\$ 105,455	\$ 93,881	\$ 91,337	\$ 92,905	\$ 106,332	\$ 108,387	\$ 132,256	\$ 216,390	\$ 201,015
	2002 includes \$30M of interconnection capital. Payment to be made in 2003.											
	Charge for Blackstone transformer removed from 2001.											
	*** 2003 Combined all Technical Support work orders ***											

Boston Edison Company

Spare Component Acquisition & Inventory Policy and Practice

Year Ending December 31, 2003



Appendix 9

Boston Edison Company Spare Parts Policy and Practices

Boston Edison Company (“Boston Edison” or the “Company”) monitors and manages critical items for its electric transmission system using a state-of-the-art computerized and integrated work management and inventory-control/procurement system. This system was installed in 1999-2000, and provides for identification of common items needed for Boston Edison, as well as the operating systems of all of the NSTAR Companies (*i.e.*, Boston Edison, Cambridge Electric Light Company, Commonwealth Electric Company and NSTAR Gas Company) (together the “NSTAR Companies”). In addition, Boston Edison’s system inventories have been decentralized to bring materials closer to their point of use, decreasing spare-part requirements. Spare part requirements are periodically reviewed and updated by the Company to create efficiencies among and between the NSTAR Companies.

I. Electric Distribution System Spare Parts

The components of Boston Edison’s distribution system are, for the most part, lower-cost and high-use items. Inventory levels are based on predicted numbers of: (1) replacements due to failure; (2) replacements due to wear, tear and obsolescence; and (3) new construction needs. Higher-cost, less-frequent turnover items, such as pad-mount switches, transformers, tapping and stopping equipment and regulators, are inventoried based on the same requirements.

In recent years, The NSTAR Companies have formed alliances with vendors of high-use items such as gas parts, distribution transformers, cable and overhead hardware. These alliances have proven very effective in assuring a continuous flow of high-quality components at a controlled price, as well as giving the NSTAR Companies priority treatment for emergency deliveries to cover natural disasters, which have the potential to drastically impact the system. In 2003 NSTAR reevaluated their cable alliance, distribution transformer alliance and poleline hardware alliance securing service commitments and stable pricing for the next 2-3 years. Additional commodities are being evaluated in 2004.

II. Electric Transmission and Distribution Substation & Gas Take Station Spare Parts

Components at the substation level are much higher in cost, but much lower in number. The turnover of these components and the parts associated with them is also very low. Historically, there was a substantial inventory of substation spare parts, with very high carrying costs. Based on alternative methods for obtaining replacement parts, spare parts inventories were reviewed by Boston Edison, and as a result, substantially reduced.

Boston Edison has identified the following alternatives to maintaining a substantial inventory of spare parts:

- Establishing relationships with suppliers who maintain inventories of spare parts that can be obtained by Boston Edison on very short notice, as described above.
- Utilizing equipment on the Boston Edison system, which has been recently replaced or upgraded, for use as spare parts. Because of the large number of Boston Edison's ongoing projects, this option would provide a fairly continuous supply of spare parts.
- Maintaining relationships with utilities that utilize similar equipment.
- Employing the use of rebuilding kits.
- Promoting redundancy in design and parallel feeds throughout the Boston Edison system to reduce the need for major component inventories.

For large critical components, dedicated spares are kept and replaced as used by Boston Edison. Specifically, the Company maintains a mobile transformer and mobile substations that can be placed in service in a very short time for emergency replacement of a major component.

Boston Edison Company

Poor Performing Circuits

Year Ending December 31, 2003



Appendix 10

2003 – Poor Performing Circuits

Boston Edison Company					
Circuit ID	Location	Reason(s) for performance	Number of years performed poorly	Steps taken to improve performance	2003 SAIDI
506-09	Brookline	The majority of the outages were caused by a cable failure on the line supplying this circuit, ug cable faults and an underground transformer failure.	2	2004 – Infrared survey scheduled. 2003 – Replaced multiple sections of feeder cable. Retrofitted switches on the circuit so they could be operated without taking an outage. Infrared survey and repairs completed. 2002 – Reconfigured circuit to reduce circuit loading. Installed new underground loadbreak switch. Circuit tree trimmed and infrared survey and repairs completed.	749.59
293-04	South Boston	The majority of the outages on this circuit were caused by cable failures, a transformer failure, a cable failure on the supply line, and a pole hit by auto.	2	2003 – A portion of the circuit was converted to 13.8kV circuit with all new cable and transformers. Two underground automatic sectionalizing switches were installed.	502.54
362-02	Milton	The majority of the outages on this circuit were caused by tree interference and overhead equipment failures.	2	2004 – Infrared survey scheduled. 2003 – Circuit tree trimmed and infrared survey and repairs completed.	285.33
211-H5	Woburn	The majority of the outages on this circuit were caused by squirrels, lighting, trees, and overhead equipment failures.	2	2004 – Infrared survey scheduled. 2003- overhead radio controlled sectionalizing units installed, infrared survey and repairs completed, circuit walked down and equipment repairs/upgrades completed, additional lightning protection added, new connectors installed on main line and additional animal protection installed. 2002 – Circuit tree trimmed.	300.35
321-05	Dorchester	The majority of the outages on this circuit were caused by cable failures and a switch failure.	2	2004 - Sections of the circuit are scheduled to be converted to 13.8kV with new cable and transformers installed.	348.22

2003 – Poor Performing Circuits

Boston Edison Company					
Circuit ID	Location	Reason(s) for performance	Number of years performed poorly	Steps taken to improve performance	2003 SAIDI
396-06	Brighton, Jamaica Plain	The majority of the outages on this circuit were caused by cable failures on the supply lines and transformer failures.	2	2004 - Sections of the circuit are scheduled to be converted to 13.8kV with new cable and transformers installed. 2003/2004 - Supply lines tested and several sections and splices replaced.	315.64
375-H9	Woburn	The majority of the outages on this circuit were caused by a switch failure due to squirrel, lightning, and station equipment problems.	2	2004 – Infrared survey scheduled. 2003 - Station equipment upgrades completed including installation of new transformer, cables and moisture protection. Overhead radio controlled sectionalizing switches installed. Additional lightning protection added. Infrared survey and repairs completed. 2002 – Circuit tree trimmed.	384.07
466-1482H1	Dorchester	The majority of the outages on this circuit were caused by cable dig-ins by others and outages due to station equipment failures.	2	2004 – Station transformer cables scheduled for replacement. Infrared survey scheduled for station equipment and circuit. 2003 – Infrared survey and repairs completed at station on circuit. Station inspection and repairs completed.	423.21
355-03	Maynard	The majority of the outages on this circuit were caused by cable failures and tree interference.	2	2004 - Tree trimming and infrared survey scheduled. 2003 – Infrared survey and repairs completed.	258.57
483-08	Dorchester	The majority of the outages on this circuit were caused by cable and joint failures and loss of supply due to station equipment failures.	2	2004 – Station transformer cables scheduled for replacement. Infrared survey scheduled for station equipment and overhead sections of circuit. 2003 - Infrared survey and repairs completed at station and on circuit. Station inspection and repairs completed.	417.97

2003 – Poor Performing Circuits

Boston Edison Company					
Circuit ID	Location	Reason(s) for performance	Number of years performed poorly	Steps taken to improve performance	2003 SAIDI
375-H6	Woburn, Burlington	The majority of the outages on this circuit were caused by squirrels, lighting, station equipment problems, poles struck by autos and tree interference.	4	2004 – Infrared survey scheduled. 2003 - Station equipment upgrades completed including installation of new transformer, cables and moisture protection. Overhead radio controlled sectionalizing switches installed, circuit walked down and equipment repairs/upgrades completed, additional lightning protection added, new connectors installed on main line and additional animal protection installed. Tree trimming and infrared survey also completed.	104.26
17-H2	Newton	The majority of the outages on this circuit were caused by a recloser failure and squirrels.	2	2004 – Scheduled for tree trimming and infrared survey 2003 - Recloser replaced, infrared survey and repairs completed.	224.98
65-1325H1	Framingham, Ashland	The majority of the outages on this circuit were caused by recloser problems, connector failures and tree interference.	2	2004 – Infrared survey scheduled. 2003 - Recloser and control box replaced, overhead radio controlled sectionalizing switches installed, circuit tree trimmed, infrared survey and repairs completed.	45.58
433-H11	Natick	The majority of the outages on this circuit were caused by squirrels and tree interference.	2	2004 – Tree trimming and infrared survey scheduled. 2003 – Overhead radio controlled sectionalizing switches installed, infrared survey and repairs completed.	104.62
396-08	Roxbury	The majority of the outages on this circuit were caused by cable failures on the supply lines and transformer failures and joint failures.	4	2003/2004 – The majority of the circuit was converted to 13.8kV with new cables and transformers installed. The supply lines were tested and several sections and splices were replaced.	986.62

2003 – Poor Performing Circuits

Boston Edison Company					
Circuit ID	Location	Reason(s) for performance	Number of years performed poorly	Steps taken to improve performance	2003 SAIDI
375-H2	Stoneham	The majority of the outages on this circuit were caused by station equipment problems, squirrels and overhead connector failures.	2	2003 – Station equipment upgrades completed including installation of new transformer, cables and moisture protection. Circuit tree trimmed and infrared survey and repairs were completed.	141.95
375-H1	Woburn	The majority of the outages on this circuit were caused by station equipment problems and poles struck by autos.	2	2004 – Tree trimming and infrared survey scheduled. 2003 – Station equipment upgrades completed including installation of new transformer, cables and moisture protection. Infrared survey and repairs completed.	214.50
240-H5	Natick, Dover	The majority of the outages on this circuit were caused by tree interference and overhead equipment failures.	2	2004 – Second ½ of circuit scheduled to be walked down and equipment repairs/upgrades made including adding additional lightning protection, animal protection and replacing main line connectors. Infrared survey also scheduled. 2003 – Circuit tree trimmed and infrared survey and repairs completed. Overhead radio controlled sectionalizing switches installed. ½ of circuit walked down and equipment repairs/upgrades completed, additional lightning protection added, new connectors installed on main line and additional animal protection installed. Infrared survey and repairs completed.	98.89
284-08	Jamaica Plain	Majority of outages were caused by joint failures and poles struck by autos.	2	2003 – Overhead section of circuit walked down and repairs made as necessary. 2002 – 30% of circuit converted to 13.8kV with new cable and transformers installed.	203.40

2003 – Poor Performing Circuits

Boston Edison Company					
Circuit ID	Location	Reason(s) for performance	Number of years performed poorly	Steps taken to improve performance	2003 SAIDI
292-H8	Newton	The majority of the outages on this circuit were caused by overhead equipment failures, squirrels and tree interference	2	2003 - overhead radio controlled sectionalizing switches installed, circuit walked down and equipment repairs/upgrades completed, additional lightning protection added, new connectors installed on main line and additional animal protection installed. Infrared survey and repairs also completed. 2002 – Circuit tree trimmed.	222.37

Boston Edison Company

Staffing Levels

Year Ending December 31, 2003



Appendix 11

1997 THROUGH 2003

STAFFING - TRANSMISSION AND DISTRIBUTION OPERATIONS

	1997	1998	1999	2000	2001	2002	2003
Boston Edison Company							
Union	1,693	1,648	1,406				
Management	681	667	649				
NSTAR Electric & Gas							
Union				2,264	2,272	2,324	2,232
Management				919	914	889	855

Note 1: From 1998 to 1999 and 1999 to 2000 the Company offered a voluntary separation program offered as part of the merger with Commonwealth Energy System. During the period from August 1999 through August 2000, 635 employees from the Boston Edison and Commonwealth Energy System elected to participate in this program and exited the merged company. This was a program that was negotiated with the union leadership. Under the program, approximately 300 union and 335 management employees terminated their employment.

Note 2: With the merger of BEC Energy and Commonwealth Energy System into NSTAR Electric and Gas and resulting consolidation of operations, employees are no longer categorized by or assigned to positions on the basis of the pre-merger operating company designations.

Boston Edison Company

2004

Performance Benchmarks



Appendix 12

Boston Edison Company
2004
Performance Benchmarks

<u>Year</u>	<u>Percent Calls Answered (1)</u>	<u>Percent Service Appt. Met</u>	<u>Percent On-Cycle Meter Reads</u>	<u>Lost Work Day Accidents</u>	<u>SAIDI (2)</u>	<u>SAIFI (2)</u>	<u>Consumer Division Cases</u>	<u>Billing Adjustments</u>
1992				1.16			1.803	177.26
1993				0.87			1.742	282.04
1994				1.10			1.608	304.48
1995	59.78%			1.37			1.478	342.21
1996	46.16%		84.92%	0.98			1.523	169.44
1997	79.98%		90.23%	0.77	100.40	1.070	1.776	255.71
1998	72.74%		92.46%	0.50	86.31	0.896	1.097	266.33
1999	69.20%		94.73%	0.73	101.21	1.060	1.087	206.88
2000	56.68%		94.81%	0.96	100.33	1.171	0.996	123.80
2001	57.11%		83.49%	0.76	146.77	1.330	2.292	114.75
2002	76.04%	88.30%	92.92%					
2003	76.72%	86.36%	94.08%					
Mean	66.05%		90.96%	0.92	107.00	1.105	1.540	224.29
Std. Dev.	11.54%		4.43%	0.25	23.08	0.160	0.400	77.49
Max. Penalty	42.97%		82.09%	1.42	153.17	1.425	2.339	379.28
25% Penalty	54.51%		86.52%	1.17	130.09	1.265	1.940	301.78
25% Offset	77.58%		95.39%	0.67	83.92	0.946	1.141	146.80
Max. Offset	89.12%		99.82%	0.42	60.84	0.786	0.741	69.30

Notes (1) Based on 20 second threshold; includes abandoned calls.

(2) Exclusions based on events affecting 15% of operating areas